STATE OF CALIFORNIA • DEPARTMENT OF WATER RESOURCES

DWR NEWS | *People*

SPRING / SUMMER 2011

East Branch Extension Moves Forward

Left to Right: DWR Construction Supervisors Rich Brewer and Dave Sale review the plans for constructing the Yucaipa connector pipeline.

The Rains Have Come Back
PAGE 10

CA Energy Resources Scheduling Division
PAGE 12

Oroville Field Division
PAGE 16

Eureka Flood Center Award
PAGE 28

DWR NEWS | *People*

SPRING/SUMMER 2011

DWR NEWS/People is published quarterly by the California Department of Water Resources.

Please send questions, comments, or story ideas to:
DWR NEWS/People
Public Affairs Office
Department of Water Resources
1416 Ninth Street, Room 252-21
Sacramento, CA 95814

Email:
dwrpeople@water.ca.gov

Phone: (916) 653-8743

DWR NEWS/People's Web site is
www.water.ca.gov/publications/dwrNewsMag.cfm

Funded by the State Water Project Contractors

Printed on recycled paper

Table of Contents

FEATURES

Cover Story: East Branch Extension Moves Forward 3
Water Year 2011: The Rains Have Come Back 10
California Energy Resources Scheduling Division Celebrates a Decade of Service 12
In the Spotlight: Oroville Field Division 16

STATE WATER CONTRACTOR PROFILE

Palmdale Water District 22

NEWS IN BRIEF

Sacramento Regional Science & Engineering Fair 25
Consulting Board for Earthquake Analysis 2011 Workshop 26
Eureka Flood Center receives Seismic Award 28

NEW ASSIGNMENT

Kevin Faulkenberry Faces New Tasks in Familiar San Joaquin Valley Setting 30
Kathie Kishaba Appointed Deputy Director of Business Operations 31
New DWR Sustainability Coordinator 32

AWARDS

Twenty-Five Years of Service 29
Unit Citations 32

PEOPLE NEWS

Retirements 34
New Hires 41
Promotions 44
Obituaries 45

East Branch Extension Moves Forward

By Jennifer Iida

It's been a long time coming, but engineering projects are finally underway to bring the full allotment of State Water Project water to the San Gorgonio Pass Water Agency.

The projects on the East Branch Extension of the California Aqueduct also will allow the San Bernardino Valley Municipal Water District to deliver additional SWP water to its Yucaipa Valley service area.

"This will be a major DWR accomplishment," said **Richard Sanchez**, Chief of the Division of Engineering.

"The East Branch Extension leg of the State Water Project is being expanded to provide an increase in the system's flow capacity and reliability to meet the growing water demands of the San Bernardino, Mentone, Redlands, Yucaipa, Cherry Valley, Beaumont, and San Gorgonio communities," Sanchez noted.

State Water Project water also will reduce supply demands on groundwater basins.

The San Gorgonio Pass Water Agency (SGPWA) became a State Water Project contractor in 1962, but didn't receive SWP water until completion of Phase I of the East Branch Extension in 2003.

Phase I brought Lake Oroville water via the California Aqueduct to the San Bernardino Valley Municipal Water District's (SBVMWD) Yucaipa Valley service area in San Bernardino County and the SGPWA in Riverside County's

Above: *Contractors working on Yucaipa Connector Pipeline Valve Vault I in February of 2011.* ***Right:*** *(Left to Right) EBX Project Manager Ted Craddock meets with EBX Engineering Team Members Dave Otto, Damon Grimes, Zerguy Maazouddin, Dawn Remme, and Matt Kasjaka.*

"Work on Phase II began in 2005 about 15 years earlier than originally planned. Initial planning activities were focused on the size and location of Citrus Reservoir and evaluation of 10 pipeline alignments to convey water from the existing Foothill Pipeline to Crafton Hills Pump Station."

Ted Craddock
EBX Project Manager

EBX Project Manager Ted Craddock

Cherry Valley. (The SBVMWD was already receiving SWP water from Lake Silverwood via the East Branch of the California Aqueduct.)

East Branch Extension Phase I (EBX I) is a 33-mile long pipeline conveyance system that carries water from Devil Canyon Powerplant Afterbay's Foothill Pipeline to Yucaipa, Calimesa, Beaumont, Banning and other communities in Riverside and San Bernardino counties, more than 450 miles from the source of the SWP water in Lake Oroville.

Engineers realized when building EBX I that some of the infrastructure it used, previously constructed by the SBVMWD, limited water deliveries to the SGPWA. Hence EBX II: six additional miles of pipe; a new 400 acre-foot reservoir (Citrus Reservoir); a 160 cubic foot per second (cfs) pump station (Citrus Pump Station), expansion of the existing Crafton Hills Pump Station from 60 to 135 cfs, and an additional pump at the existing Cherry Valley Pump Station to increase capacity from 32 to 52 cfs.

Phase II will double the SGPWA's SWP deliveries to 17,300 acre-feet a year.

"Soon after completion of Phase I, SBVMWD and SGPWA requested DWR begin project formulation and planning studies for Phase II," said **Ted Craddock**, EBX Project manager.

"Work on Phase II began in 2005 about 15 years earlier than originally planned," Craddock said. "Initial planning activities were focused on the size and location of Citrus Reservoir and evaluation of 10 pipeline alignments to convey water from the existing Foothill Pipeline to Crafton Hills Pump Station."

As Phase II Is underway, so also is the East Branch Extension – Phase I Improvements Project. This work dovetails to increase the operating storage capacity of the existing Crafton Hills Reservoir from 85 acre-feet to 225 acre-feet. This will enhance the system's operational flexibility and reliability, and reduce on-peak energy demands. Also, a half-mile-long, 42-inch diameter pipeline will connect the existing EBX pipeline with the existing Yucaipa Pipeline. The pipeline will bypass the reservoir to allow continued deliveries while the reservoir is being enlarged. It also will be used during future outages of the reservoir.

"The (reservoir size) increase is a huge benefit because currently there is a small margin of error in the system," said Craddock. "If a valve needs repair on the pipeline upstream of the reservoir, you're out of water within a day. The additional storage will provide at least a couple of days to fix the problem or shift to backup water supplies."

The East Branch Extension projects – including Phase I, Phase I Improvements, and Phase II – exemplify sound

In 2008, Project Geology Geologist Ted Bruce uses compass to measure strike and dip of foliation in exploration dozer trench for EBX-Phase I Improvements at Crafton Hills Reservoir.

planning to expand projects as dictated by service needs.

Phase I, completed in 2003, delivers half of the SGPWA'S contracted water for recharge of groundwater basins in Beaumont and Cherry Valley. The phase I system also delivers water to SBVMWD's Yucaipa Valley Service area.

Phase I Improvements, at an estimated cost of $20 million, interlock with Phase II, which DWR began planning in 2005.

Improvements Project work, begun early this year, to date has included fabrication of pipe sections, construction of the vaults at the connections to existing pipelines, and installation of portions of the Yucaipa connector pipeline. Also, Highway 38 had to be detoured around the work area. Pipeline construction is scheduled to be completed in July, prior to work on the Crafton Hills Reservoir enlargement, which includes construction of a second, 100-foot-tall dam in a ravine west of the existing dam.

All work on Phase I Improvements and Phase II is scheduled to be completed by late 2014.

Preserving Valuable Natural Resources

The Crafton Hills area is a labyrinth of scenic hiking trails utilized by scores of nature enthusiasts. During planning of the Phase I Improvements Project, environmental studies were conducted to evaluate impacts to aesthetics, air quality, biology, cultural resources, geology, hazardous materials, hydrology, land use, noise and vibration, public service and utilities, and transportation and traffic.

Mitigation measures were developed to minimize impacts. Another impact identified by DWR is the loss of open space where the new dam and reservoir will be located. As a result, DWR is committed to acquiring a similar amount of open space within the Crafton Hills and is working with a local conservancy to identify suitable property.

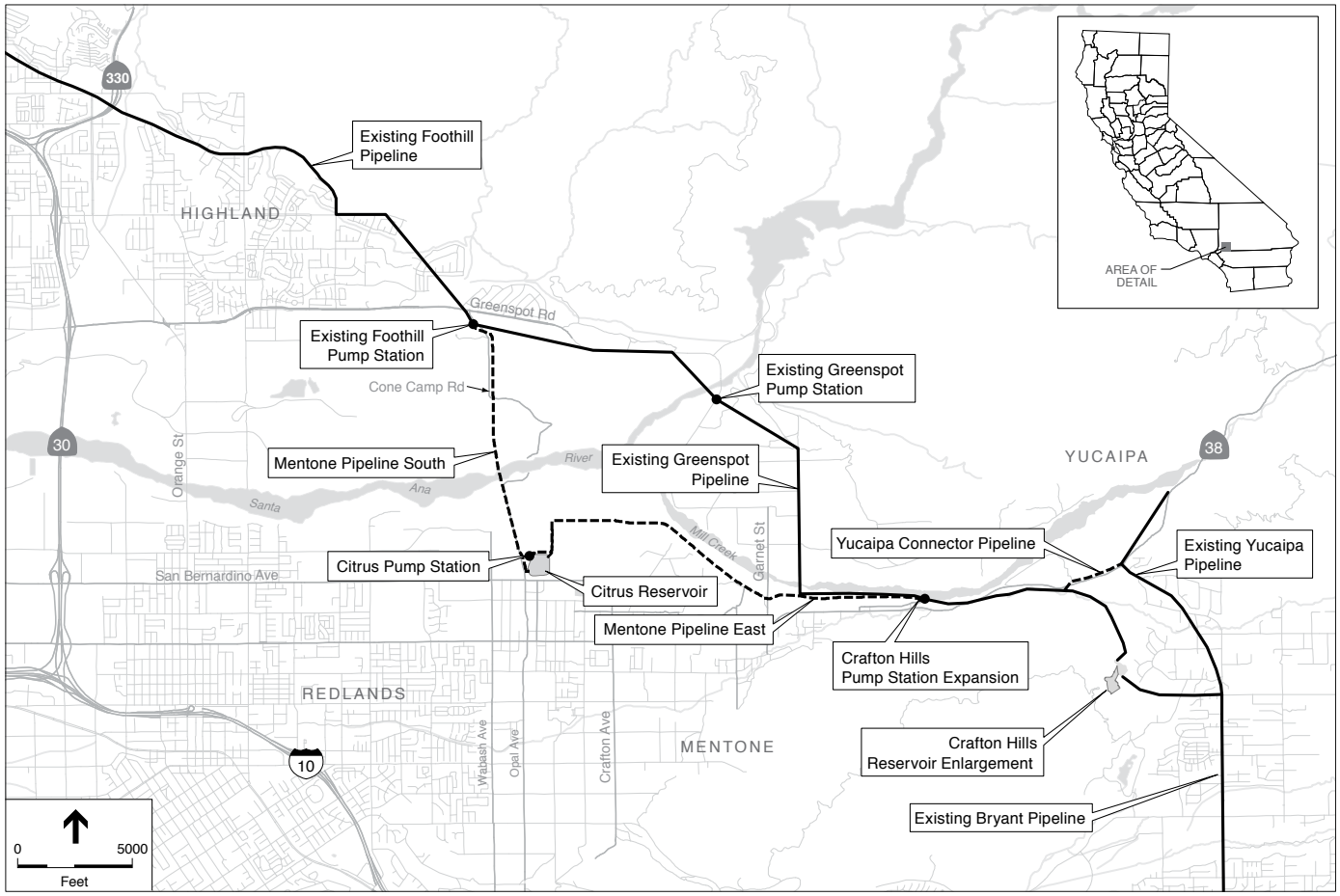
Phase II on the Horizon

Phase II construction of the Mentone Pipeline and Citrus Reservoir will begin late this year.

"The thing that is exciting about this is more than 100 staff throughout DWR have been working on this project (Phase II)

Rich Brewer (right) of Lancaster Project Headquarters reviews Yucaipa connector pipeline plans with contractor.

EAST BRANCH EXTENSION PHASE I IMPROVEMENTS AND PHASE II



Above: *Crafton Hills Reservoir enlargement dam site*
Right: *Rich Brewer of Lancaster Project Headquarters at construction of Yucaipa connector pipeline.*

for the last five years and now it's finally all coming together," said Craddock.

One of the highlights of Phase II will be at the Citrus Pump Station, where eight pumps will lift water 715 feet to a new forebay tank at Crafton Hills Pump Station.

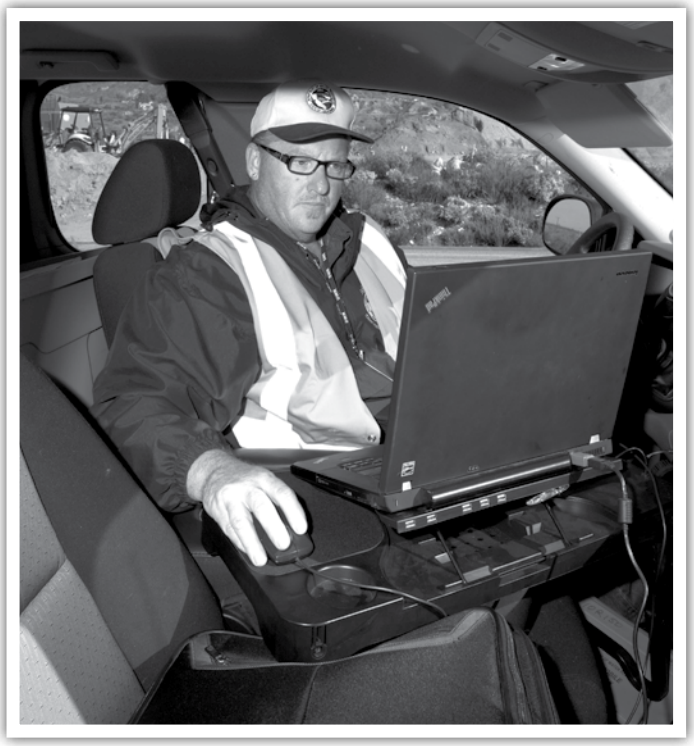
Occupying a footprint of 160 feet by 80 feet with a building height of 40 feet, the Citrus Pump Station will have motors ranging in size from 1,250 to 2,750 horsepower. Citrus Reservoir with a storage capacity of 400 acre-feet and a surface area of about 18 acres, will act as a forebay for Citrus Pump Station and will be filled from the south segment of Mentone Pipeline.

Mentone Pipeline's southern segment, which starts at the existing Foothill Pipeline and will end at Citrus Reservoir, will include about two miles of 72-inch diameter steel pipe with a capacity of 175 cfs. The south segment of the pipeline will also cross the Santa Ana River wash and will be placed 40 feet below the ground surface at the main channel of the Santa Ana River to ensure the pipeline is not affected by high flows in the river.

The eastern segment, which will start at Citrus Pump Station and will terminate at Crafton Hills Pump Station will include about four miles of 66-inch diameter steel pipe with a capacity of 160 cfs.

Citrus Pump Station will require about 20 megawatts of energy to power the eight pumps. As a result, DWR is working with Southern California Edison to build new transmission and interconnection facilities and execute agreements to purchase power. Edison plans to tap a 115 kilovolt power line located about 1,000 feet away from Citrus Pump Station to bring power to the site.

(Photo by Mark Pagenkopp) Geologist Don Hoirup of DOE's Project Geology Section in the Geotechnical and Structures Branch performing geologic reconnaissance along the EBX-Phase II Mentone Pipeline alignment.



Dave Sale, Assistant Chief of Lancaster Project Headquarters, works from his mobile office at the Yucaipa connector pipeline site.

Environmental Studies for Phase II

Environmental studies were also conducted to evaluate impacts resulting from the Phase II project. These studies identified the possible presence of four threatened and endangered species within the pipeline construction area. The species include the San Bernardino Kangaroo Rat, Coastal California Gnatcatcher, Santa Ana River Woollystar, and Slender-Horned Spineflower.

To mitigate the project's impacts on these species, a 33-acre mitigation property has been acquired within the Santa Ana River Wash. The property currently is occupied with San Bernardino Kangaroo Rat and Coastal California Gnatcatcher. DWR has committed to performing periodic vegetation clearing to maintain the habitat value in the future.

DWR is also working cooperatively with the United States Fish and Wildlife Service to develop a plan to restore and enhance the pipeline construction corridor where it crosses the

Lancaster Project Headquarters staff

Woolly Star Preservation Area (WSPA). The WSPA is a conservation easement established for the nearby Seven Oaks Dam. Enhancements to the WSPA include spreading natural material from the Citrus Reservoir excavation over the pipeline construction corridor to make surface soils more suitable for San Bernardino Kangaroo Rat.

A Dedicated Team

"Implementing projects as large as the East Branch Extension requires the dedicated and tireless efforts of DWR employees," said Craddock.

The Division of Engineering (DOE) is responsible for overall management of the planning, design, and construction. DOE's Civil Engineering Branch; Geotechnical and Structures Branch; and Mechanical and Electrical Engineering Branch are responsible for the engineering design with the Administrative Services Branch providing administrative support. The Real Estate Branch is responsible for property acquisition, while the Geodetic Branch provides topographic surveys that support real estate, design and construction efforts.

In the Construction Branch, there is currently a staff of approximately 90 employees within five sections and headquarters which include the Contract Development Section, Planning and Scheduling Section, Equipment and Materials Section, Lancaster Project Headquarters, Sacramento Project Headquarters and Levee Repair Project Headquarters.

"Our group is responsible for advertising, bidding, awarding, and administering construction contracts issued by the DWR," said **Robert Fill**, Chief of DOE's Construction Branch.

The Lancaster Project Headquarters employs about 10 people and that number is expected to climb during Phase II. They are responsible for administering construction contracts for the southern region of the state.

In addition to DOE staff, several DWR divisions are collaborating on the projects as members of the overall project team.

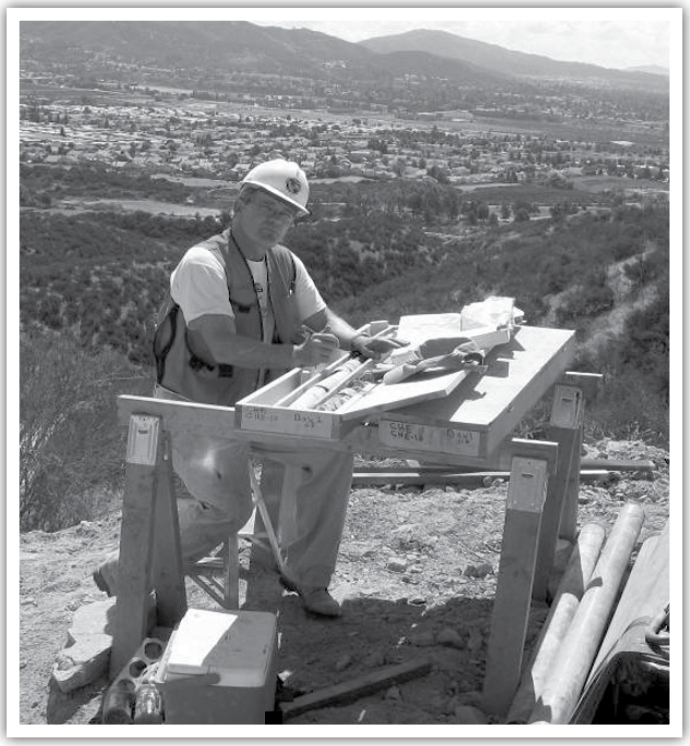
Environmental studies and compliance activities are being managed by Southern Region Office with support from the Division of Environmental Services for specific analyses such as cultural and hazardous

EBX Engineering Team Members during March 2011 meeting

material assessments. DOE along with Southern Region and the Office of Chief Counsel prepared the Environmental Impact Reports. The State Water Project Analysis Office is responsible for developing the proportional use factors and agreements with SBVMWD and SGPWA. The SWP Power and Risk Office is responsible for developing agreements with Southern California Edison for long-term power supply and construction of the transmission and interconnection facilities for the pump stations.

The Division of Operations and Maintenance Headquarters and Southern Field Division, SBVMWD, and SGPWA also perform important roles providing input and review of the long-term operation scenarios and facility designs. They will ultimately be involved with operating and maintaining the new facilities. In addition, O&M staff is involved in outages and operational tests of the system.

"It's satisfying to know the water we provide will serve several communities and help ensure thousands of people have water to live their lives and conduct business to benefit the economy of California," said Craddock.



With the city of Yucaipa in the background, DWR Geologist Mike Purcell logs core CHE-10 drill site.

At Cratton Hills Reservoir enlargement dam site, Project Geology Geologist John Curless logging drill core from exploration drill hole. Background: Drilling rig at site.

WATER YEAR 2011

The Rains Have Come Back

By Maury Roos, DWR Chief Hydrologist

At the end of March California's snowpack was an impressive 170 percent of the April 1 average, and both the Sacramento and San Joaquin River systems were conveying moderately sized flood flows through the Delta, out San Francisco Bay, and into the ocean. On March 30, 2011, for the second time in his political career, Governor Brown officially ended a state drought (the first time was in 1978, after the worst two-year drought in California's history).

This water year started off well in October 2010 with an abundance of rain eventually producing about 250 percent of average by the end of the month. Nearly 75 percent of the monthly total was produced by an atmospheric river (commonly known as a "Pineapple Express") from the semitropical western Pacific during the fourth week of the month. The wet streak continued in November with northern Sierra precipitation reaching 127 percent of average, followed by a very wet December – precipitation was nearly twice the normal monthly average.

The three month (October – December) precipitation total for the northern Sierra on January 1 was 180 percent of average. Statewide precipitation was even better at almost 200 percent of average for the three month period, and, in contrast to patterns expected in a La Nina year, the southern Sierra was heavier than the north with a 270 percent of average precipitation for the three month total. The storm series at the end of December produced flooding in southern California during Christmas week. On January 1, the Sierra snowpack was a robust 210 percent of average for the date and 75 percent of an average April 1 pack in terms of water content.

In January, as a high pressure system built up just offshore, we had six weeks mostly dry weather, and Sierra snowpack accumulation stagnated at about 75 percent of the April 1 average.

The dry streak ended in mid February with generous rains giving us a near average amount of rain and snow for the month. Because February's colder storms were coupled with the lack of precipitation in January, river runoff for February was about 60 percent of average. March turned out to be very wet with a parade of storms, mostly cold enough to boost the mountain snowpack to near 70 percent above average by the end of the month. During March greater rain and snow accumulations occurred in the northern Sierra, which had lagged during the first half of the rainy season, so the entire Sierra had similar percentages of snowpack on April 1, making this year's snowpack the fifth wettest in the last 60 years. But, with continuing rains in lower zones of the watershed, March runoff was well above average, forcing large flood control releases from most Sierra reservoirs to maintain required reservoir flood

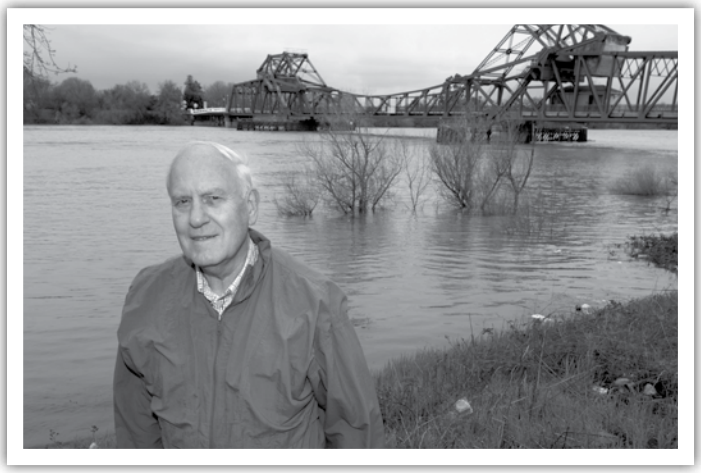
Above: *Sierra snowpack north of Phillips Station. Oroville Dam and Lake*

control space near the end of the flood season.

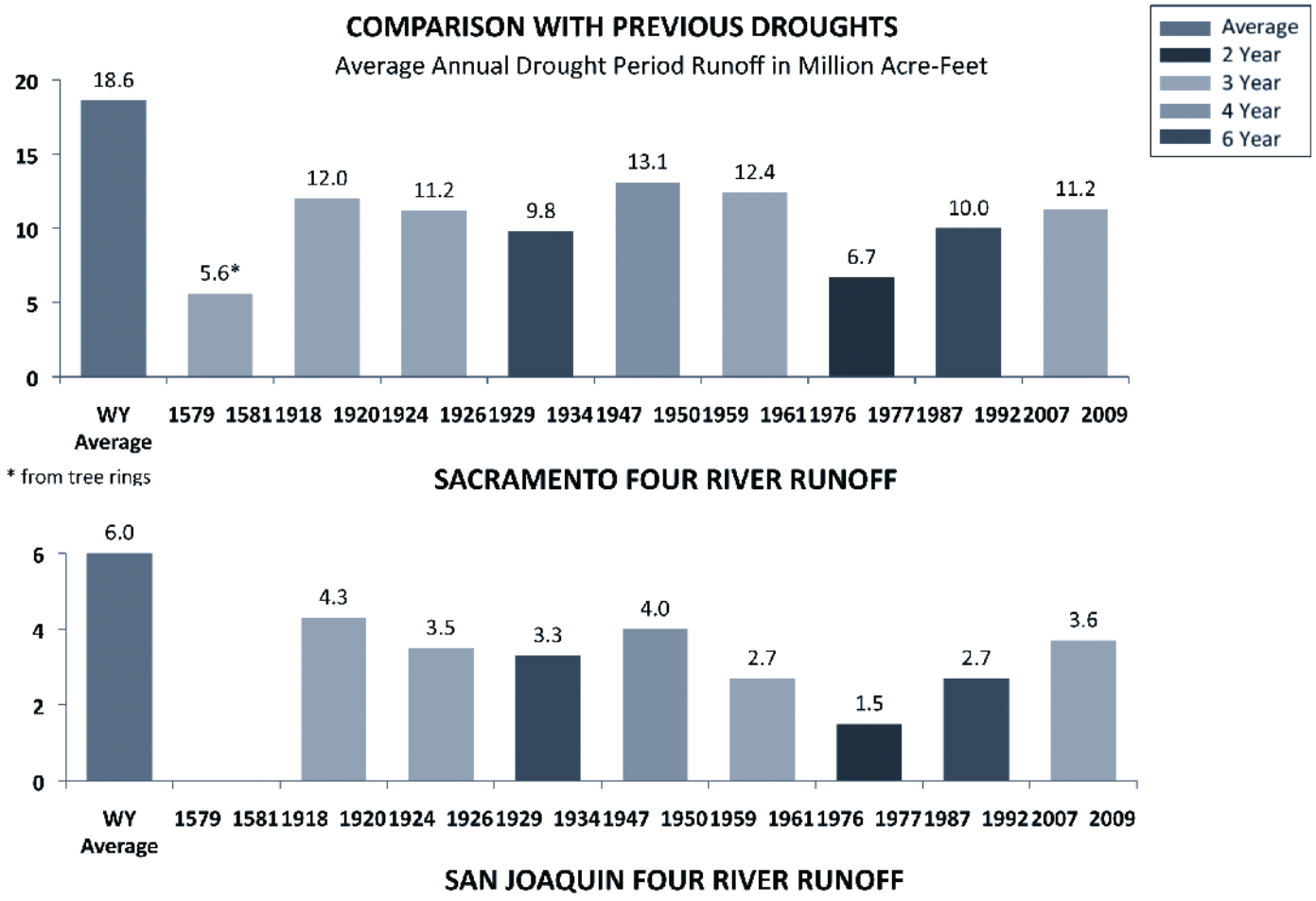
2011 will be the wettest runoff year since 2006, with large amounts of surplus flow expected on both the Sacramento and San Joaquin River systems. It is too soon to know yet, but this could be one of those years with enough snowmelt to cause spring flooding problems in the San Joaquin Valley and some eastern Sierra streams. The Sierra snowpack is the most since that of 1995 and with the amount of runoff expected, it should be a wonderful year to see the Yosemite waterfalls.

Though this drought has officially been ended, it was not as severe as either the 1987-92 or the 1976-77 droughts. From 2007-09, the combined average annual runoff for the four rivers of the Sacramento River Region (Sacramento, Feather, Yuba, and American) was 11.2 million acre-feet (maf), compared to 10.1 maf during 1987-92 and a two year average of only 6.7 maf in 1976-77. The 50 year average is 18.6 maf for the Yuba, Feather, American and Sacramento Rivers combined.

It would be helpful to distinguish between drought and water shortage. The former is a hydrologic deficiency; the later would be due to demands exceeding the assured supply or lack of facilities to meet water requirements even in normal years.



In March of 2011, Maury Roos standing near Freeport Bridge on Sacramento River.



California Energy Resources Scheduling Division Celebrates a Decade of Service

By Christina Jimenez

January 17, 2011 marked the 10-year anniversary for the Department of Water Resources' (DWR) California Energy Resources Scheduling (CERS) Division. Created in response to the energy crisis and Governor Gray Davis' mandate, CERS was formed overnight to intervene and prevent a statewide electricity blackout in early 2001. CERS instantly became a major player in the energy and utility business.

Shifting from a California dominant energy buyer and distributor in 2001, CERS' responsibilities now revolve around the division goal of exiting the utility industry. Today, CERS staff's primary functions are to manage and transition power contracts back to the Investor Owned Utilities (IOU), repay its bond debt, and execute ongoing legal claims in an effort to recover overpaid energy costs from the inflated energy prices in 2001. Nonetheless, CERS Acting Deputy Director, **John Pacheco** emphasizes that the division's primary focus has always been to "deliver the electricity, the energy, to the retail end use customers at the lowest unit cost possible," on behalf of the IOU's.

Management has begun to focus on finding placement for staff members in other divisions as workload decreases. At its height, CERS employed approximately 250 state employees and consultants. Today, the Division has a total of 38 state employees and a few consultants, and will continue to downsize the office and ultimately conclude its business.

Above: *California Energy Resources Scheduling Division employees working for CERS during 10th Anniversary in 2011 include Ben Arikawa, Julie Weirton, Erin Saenz, Kelly Fish, Wilson Perez, Ram Verma, Ulysses Salazar, Russel Mills, George Baldini, Reza Molavi, Jain Fong, David Alexander, Gurdip Rehal, Jim Varney, Jon Edwards, Moises Gonzales, Ray Aguilar, Jim Spence, Tom McGivney, Jacque George, Katherine Killeen, Valerie Cox, Michael Whitten, Stuart Chan, Anitha Rednam, Carol Hurlock, Mary Gaffney, Jane Mountjoy. Stephanie King, Andrea Geremia, Cathe Bledsoe, Iryna Kwasny, John Pacheco.*

How CERS Started

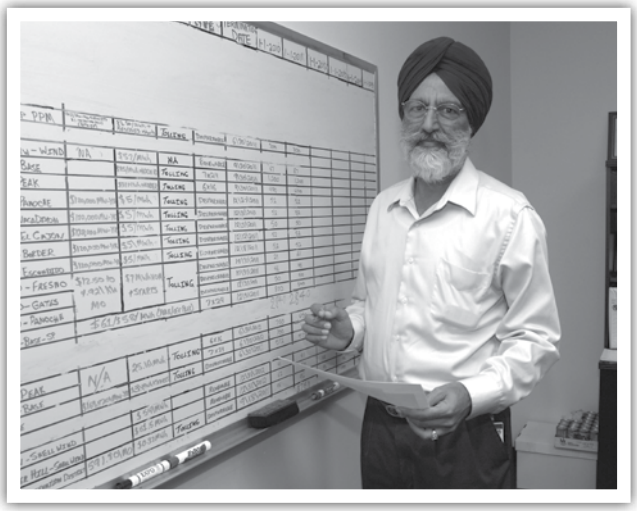
The division was created following Governor Gray Davis' Emergency Proclamation on January 17, 2001, in response to California's energy crisis. Signs of energy market manipulation surfaced in 1999 and 2000, and by 2001 the Governor was forced to intervene. The manipulation caused an extreme rise

in energy costs for the IOUs (Pacific Gas & Electric, San Diego Gas & Electric and Southern California Edison) and the IOU's were financially unable to purchase power for delivery to their customers.

Promptly, the Legislature provided DWR with $400 million to start buying energy from retailers and delivering power to IOU customers. With many prospective agencies to choose from, Governor Davis selected DWR to fill the role of California's primary energy buyer and seller given that staff had comparable utility experience.

State Water Project (SWP) water and power dispatchers had experience "moving water up and down the state, from Oroville all the way down to L.A," said John. "Our dispatchers, they're on the phone, their computers, buying and selling energy with the utilities, with everyone else in the Western States. It takes so much energy to move this water, we are like a utility company, probably the size of SMUD, but we have one customer, us." Overnight, the division stepped in for the IOU's and purchased power on the spot market for delivery to IOU customers.

John began his DWR calling as a student in 1978, as an Engineering and Scientific Student Aid. After graduating from Sacramento State in 1980, he came on board as a junior civil engineer. He has been the Acting Deputy Director of CERS since October 1, 2009. He'd begun working for the division in February 2001, one month after its inception.



Above: *With more than 33 years at DWR, CERS' Acting Deputy Director John Pacheco has been part of CERS since February of 2001, a month after its creation.*
Below: *Gurdip Rehal, Acting Chief of the Financial Management Office, has worked 28 years for DWR in the State Water Project Analysis Office, SWP Power and Risk Office, and currently CERS.*

During the division's first two years, staff worked around the clock purchasing energy on the spot market. At the market's highest point, energy costs reached 10 times the standard rate. As a result of the deregulated markets, in 2002, CERS issued $11.3 billion in bonds to finance the cost of the energy needed to maintain California's power. It was the nation's largest bond offering at the time.

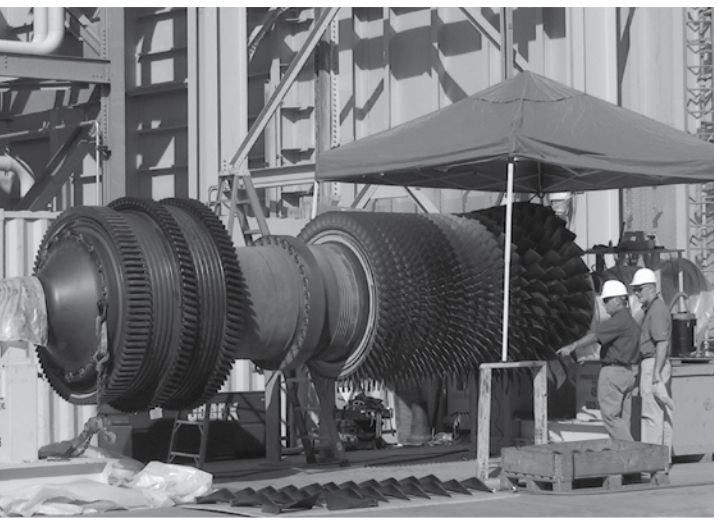
With the extreme energy cost, the division quickly found it most beneficial to enter into long-term contracts with energy suppliers, encouraging lower energy prices over a longer period of time. Thus, 58 long-term contracts between DWR and energy suppliers were established, totaling nearly $42.5 billion, to quickly stabilize energy prices. However, the contract terms negotiated were still not reflective of the standard cost of energy prior to the deregulated markets.

By 2003, IOU's regained financial stability and resumed their role as California's primary energy buyers and distributors; CERS was relieved from the obligation of buying additional energy. Though CERS stopped purchasing additional power, the division maintained the responsibility of seeing through the existing 58 contracts and delivering energy to their customers. At this point, the division's focus quickly shifted to renegotiating contract costs and terms and within less than a year, at the close of 2003, 35 of the 58 contracts were renegotiated, saving the State over $7.5 billion.

CERS Today

Today, CERS' three primary functions are the management and transition of the long-term power contracts, paying off the bond debt from the early years of spot market buying, and pursuing legal claims in an effort to recover excess funds paid during the energy crisis. All of these functions work toward the end goal of transitioning out of the business.

To best meet CERS' departmental responsibilities, the division is organized into two primary offices under CERS'



*Bob Grow **(right)** Senior Hydroelectric Power Utility Engineer inspecting combustion turbine rotor major overhaul at 580 MW Sunrise Power Plant. **Background** (photo by Sunrise Power Company): Sunrise Power Plant is one of 37 new power plants supported by DWR's contracts since 2001.*

Executive Management staff, the Financial Management Office and Contract Management Office. DWR legal staff also works closely with CERS to pursue ongoing legal claims.

The Financial Management Office staff works diligently to "manage the legal and financial responsibility of long-term power contracts," as well as to, "verify, validate and process monthly energy and natural gas invoices of over $300 million for payment each month," says **Gurdip Rehal**, Acting Chief of the Financial Management Office.

The office ensures that contractors abide by the contract terms and guidelines, manages the remaining $8 billion in bond debt, and collects money from utility customers through the utilities to pay off bonds and power contract charges.

Gurdip is responsible for validating and approving all invoices for the CERS' bilateral long-term energy contracts and the related natural gas fuel supply agreements. He provides support and input as needed for global settlement negotiations, disputes, litigation and arbitration processes including supporting the Attorney General's Office in pursuing billions of dollars in claims against energy providers.

"Within contract management, staff are constantly either negotiating, renegotiating or dealing with disputes," says John.

Jim Spence, Acting Chief of the CERS Contracts Management Office since January 2010, says staff's daily efforts are directed towards coordinating with the Utilities and the contract counterparties as issues arise in daily operation. Staff also review and approve fuel supply plans, in addition to ensuring contract compliance of the suppliers.

Jim, recruited into CERS just five days after its formation in 2001, is a Principal Hydroelectric Power Utility Engineer. He is responsible for the contract administration of the long-term power purchase portfolio, including negotiation of amendments, resolution of disputes, and verification of performance and adherence to the contracts and coordination of daily operations with the utilities.

Major Accomplishments

"Over the past 10 years, the division has made great strides. From stepping in for the IOU's and immediately buying and delivering energy on their behalf to more recently, working towards the transition of the full ownership of the contracts over to the Utilities," Jim says of Contracts Management. "This is referred to as contract novation, where we terminate or transfer all terms and conditions for the contract to one of the utilities."

"Contracts staff deciphers which contract to enter into the novation process by analyzing the terms of the contract. They look at which one is easiest to novate, if it has too many disputes or litigation—utilities don't want those," says Pacheco.

Currently, three contracts are in the novation process and CERS is hoping to have the transition completed within the next year. To date, 17 long-term contracts remain as CERS' responsibility, of the 58 entered into in 2003.

In addition to transitioning contracts back to the IOU's, another major assignment CERS continues to undertake is legal claims. Given that the 2001 market manipulation caused extreme energy prices from utility suppliers during the crisis, many lawsuits have surfaced between the "California Parties," consisting of DWR, California Public Utilities Commission

(CPUC), and Attorney General's Office plus a variety of California's utility companies.

Several claims have been settled, and others continue with the anticipation of a resolution. Through these lawsuits, CERS hopes to recover a portion of the excessive energy costs incurred at the peak of the crisis, roughly $9 billion. Over the years, 46 legal claims have been resolved, totaling more than $2.7 billion in returned savings.

Other significant highlights include the "renegotiations of long-term contracts, pursuing refund claims against energy providers during the energy crisis, and approval of the annual revenue requirements from California Public Utilities Commission," states Gurdip. Staff have also "established and maintained energy transactions databases, coordinated CERS' energy operations with IOU's, and managed and hedged the price uncertainty of natural gas prices," he recalls.

Though these undertakings are highlighted as major accomplishments, they are also viewed as major challenges that the division continues to face. Gurdip points out that the "management and refund of bonds during the financial crisis and a resolution of the numerous legal disputes and claims" are ongoing. Seventeen lawsuits today remain in progress, working toward a settlement.

Jim adds that the division has made great effort to "maintain the value of the State's investment through the constantly evolving wholesale electricity market."

What Lies Ahead

"During the next few years, the division will maintain all the records and databases for archive purposes and will continue to resolve numerous legal disputes and claims related to the 2001 energy crisis," said Gurdip.

In addition, staff will continue to work on "shortening the terms of the longest contracts to accelerate DWR's exit from the business," said Jim, and along the way the division will "reduce staffing of the office without compromising ongoing workload." Workload will begin to slow down with the resolution and transition of the remaining 17 contracts, and staff will relocate into other units of DWR.

"The division's responsibilities will then be primarily focused on the repayment of CERS' bond debt and litigation," said John. "CERS' management anticipates the elimination of the long-term contracts by 2015 or sooner and the bonds are projected to be settled by 2022. In terms of litigation, CERS cannot project the estimated time left to complete the claims with the dynamic and unpredictable industry and the division will have to just let that play out."

Looking back over the past 10 years, CERS successfully executed the delivery of energy directly to IOU customers at their lowest cost possible with the State's investment in mind. Along the way, the division dealt with record-high energy costs and high demand. More recently, CERS is undertaking the repayment of bond debt and recovering excess costs through litigation. Staff will continue to close out long-term contracts, recover money from excess prices paid for energy, and steady repayment of bond debt through customer invoices. In all, CERS is responsibly phasing out of the energy business.

Left to Right: *Executive Assistant Erin Saenz, Acting Deputy Director John Pacheco, and Acting Chief of Financial Management Office Gurdip Rehal reviewing quarterly financial report to be submitted to the Legislature and Governor's Office.*

Left to Right: *CERS Acting Deputy Director John Pacheco, retired Staff Counsel III Steve Cohen, and retired Energy Division Chief Viju Patel celebrate CERS 10th Anniversary.*



IN THE SPOTLIGHT

Oroville Field Division

By Pete Weisser

Oroville Field Division is the northernmost and most historic portion of California's State Water Project (SWP), embracing about 48,000 acres in Butte and Plumas counties. The division's huge Oroville Dam and Lake Oroville provide the key storage, supply, flood control and energy generating facilities for the SWP in Northern California. The 1955 Christmas flood of the region's fabled Feather River dramatized the need for flood control in the region and built public support for a statewide water project that became the SWP.

In 1955, just before Christmas, the rain-swollen Feather River burst the levee at Shanghai Bend, just south of Yuba City, flooding 100,000 acres and taking 38 lives. Jump-started by the disastrous flood, preparatory work for the construction of Oroville Dam began in 1957. Work continued with emergency appropriations until the Legislature approved the Burns-Porter Act in 1959. Approved by the voters the next year, the $1.75 billion bond measure provided stable funding for construction of the State Water Project which eventually would extend from Lake Oroville to Lake Perris in Riverside County.

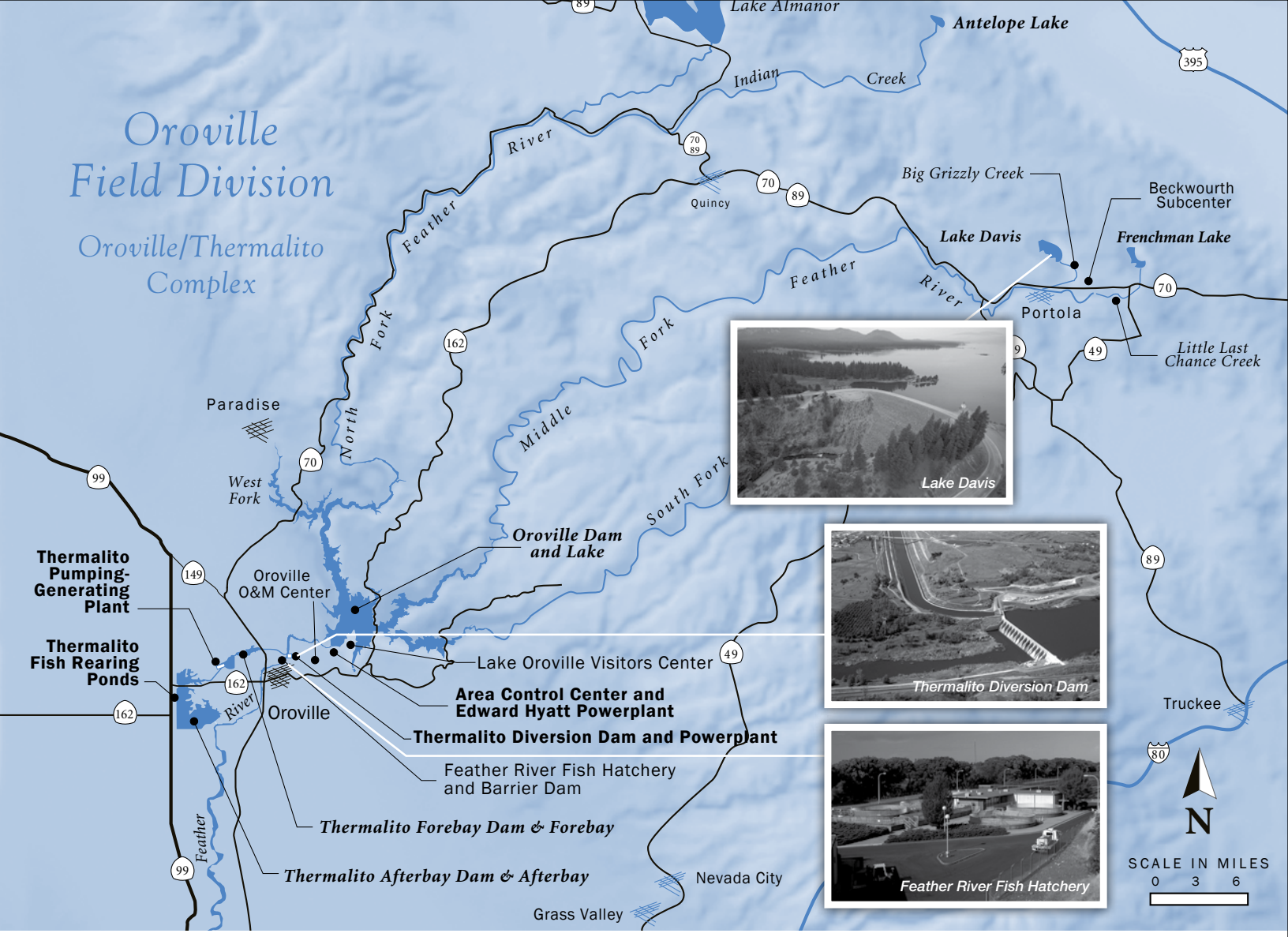
Above: *Middle Fork Feather River, Lake Oroville and Hyatt Powerplant.*
Below: *Pete Scheele, Chief of Oroville Field Division since 2005, standing by Lake Oroville.*

As the SWP was constructed from north to south, Oroville facilities were among the first—and most distinctive—to take shape. Enormous quantities of earth were moved to build the dam, the largest of its kind in North America. Even before its completion, Oroville Dam helped save Oroville from flooding during a major flood event in 1964.

Historic, Distinctive Oroville Features

With bipartisan Legislative support, planning and initial SWP construction began under Republican Governor Goodwin J. Knight. Democratic Governor Edmund G. (Pat) Brown led the successful campaign in 1960 to approve the massive bond to finance SWP construction. The SWP's basic structure was completed under Brown's successor, Ronald Reagan, a Republican.

Reagan, who was later elected the 40th President of the U.S., officiated at Oroville Dam's dedication in 1967. The dam was honored for engineering excellence by the California Society of Professional Engineers in 1967 and by the American Society of Civil Engineers in 1969. In 2006, the U.S. Postal Service issued a commemorative stamp featuring Oroville Dam.



Oroville Dam, at 770 feet the tallest in the nation, contains Lake Oroville, the largest reservoir in the SWP (and second in size among reservoirs in California only behind Shasta Lake), with a capacity slightly over 3.5 million acre-feet.

Water is discharged from the lake through the Hyatt Powerplant, carved out of bedrock below the dam. The water then travels to the Thermalito Powerplant. Combined generating capacity of the facilities is 925 mega watts (MW) when the lake is at a normal elevation. The Oroville facilities began full-scale operations in 1968.

Multi-Purpose Lake

Lake Oroville serves multiple purposes: flood control for the Feather River watershed and cities downstream along the Feather and Sacramento rivers; Butte County municipal uses and agricultural irrigation; power generation, chiefly to help move SWP water; environmental uses to benefit fish and ecosystems in the Feather River and Sacramento-San Joaquin Delta, and recreational opportunities.

Flood control is one of Oroville Dam's most dramatic functions. For decades, the big earthen fill dam has restrained some of Northern California's most potent floodwaters. In February 1986, when Northern California received a half-year's rainfall in 10 days, Oroville Dam received record peak inflows of 275,000 cubic feet per second (cfs). The dam's releases for the first time hit a high point in controlled flood releases: 150,000 cfs.

The 1997 New Year's storm rainfall nearly rivaled in size the legendary Central Valley flooding of 1862, according to **Maury Roos**, veteran DWR hydrologist.

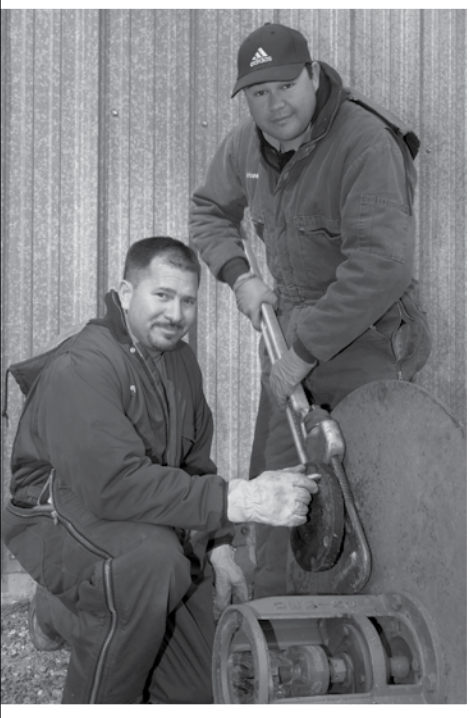
Over a three-day period centered on New Year's Day, moist winds poured more than 30 inches of rain onto watersheds already saturated by one of the wettest Decembers on record. Oroville Dam absorbed huge inflows over 300,000 cfs. The peak record inflow was recorded at 302,000 cfs on January 1 at 8 p.m., according to **Kevin Wright**, Water Services Supervisor in the Oroville Field Division. For a period of 10 hours, dam releases hit a record 160,000 cfs.

Left to Right: *Tammy Kearney, Teresa Lapanja, Kathy Gould, Elaine Hall (Chief), Karen Cawthon, John Ford and Rick Lovvo are just a few of Oroville's dedicated Administration Branch employees.*

Oroville's Skilled Staff

Operating the dam and generating power requires the commitment and energy of a broad range of professionals and skilled craftsmen, reports **Pete Scheele**, Chief of the Oroville Field Division. He notes that the 41,100-acre project area of the Oroville Facilities, not including the three Upper Feather River SWP lakes (Antelope, Davis, and Frenchman), includes the lake, dam, three power plants, and the Lake Oroville Recreation Area.

"We need the talents of highly capable engineers and skilled workers to make Oroville hum with efficiency," says Scheele. The division's 120 employees include administrative staff, engineers, electrical engineers, mechanical engineers, utility craftworkers, heavy equipment mechanics, control system technicians, building maintenance workers, water resources technicians, and hydroelectric plant operators, mechanics, and electricians.



Left to Right: *Oroville Field Division Utility Craftsworkers Monte Reyes and Marcos Gutierrez perform work on a pump cover.*

Lake Oroville Recreation

One of the largest lakes in California, Lake Oroville provides a full range of lake recreation, including boating, fishing and camping. As with other California storage reservoirs, lake levels tend to peak in May and decline gradually into fall and the wet season. Biking, hiking and riding are available at trails near the lake in scenic Butte County, about 75 miles north of Sacramento.

Fishing includes both warm water and cold water fish species. Bass fishing in Lake Oroville is typically excellent in late spring and early summer. Lake species include spotted bass, smallmouth and redeye bass. Lake Oroville is the only lake in California where Coho salmon are planted, fish respected by anglers for their fighting ability and table fare quality.

Located near Lake Oroville, fishing is also available at the Thermalito Afterbay, a shallow lake downstream, which hosts a productive largemouth bass fishery. The 5500-acre Oroville Wildlife Area, just west of State Highway 70, contains many small ponds, with fishing for bass and sunfish, plus access to 10 miles of the Feather River, a popular steelhead fishery.

Though an immense reservoir, Lake Oroville shrinks during prolonged dry periods, showing more of its characteristic red earth rim as the lake level drops. It declined during the 1976-77 drought, and even more dramatically during the 1987-1992 drought, longest statewide dry spell in California's modern history as a state.

"But even in a drought," said **John Ford**, veteran Oroville Dam tour guide, "Lake Oroville is still a big lake."

Floating campsites and two major marinas are big attractions for vacation visitors. Houseboats, water skiing boats, personal water craft and fishing boats may be rented at the

Left to Right: *HEP Electricians Brian Braden and Ken Dunn review plans for work to be performed.*

Kevin Wright, Water Services Supervisor, recalls the 1997 inflows that peaked at more than 300,000 cfs.

lake's two marinas: Bidwell Canyon Marina (530) 589-9873 and Lake Oroville Marina (530) 877-2414.

Most recreational facilities at Lake Oroville are located inside the Lake Oroville State Recreation Area, administered and operated by the State Department of Parks and Recreation. For camping information at Oroville, call State Parks at (530) 538-2219. Reservations may be made by calling Reserve America at (800) 444-7275.

Oroville Field Division Chiefs

Past and Present

Phil Johns, *July 1965 - November 1980*
Forrest Neff, *November 1980 - December 1988*
Sheldon Taylor, *January 1989 – December 1991*
Rolland Williams, *December 1991 – September 2000*
Tom Glover, *September 2000 – August 2002*
Jim Blood, *August 2002 - September 2003*
Dave Starks, *September 2003 – May 2005*
Jim Blood, *May 2005 – July 2005*
Pete Scheele, *July 2005 – Present*

Oroville Facilities Relicensing

By Cassandra Enos-Nobriga
Hydropower License Planning and Compliance Office

The Oroville facilities operate under a license from the Federal Energy Regulatory Commission (FERC). The original FERC license was issued in 1957 for a 50-year period. In 2000, DWR began the process to file an application for a new license – thus beginning the relicensing process.

DWR contacted more than 1,000 highly diverse stakeholders representing local interests and governments, state and federal resource agencies, water agencies, non-governmental organizations and Native American tribes to help develop proposed terms and conditions for a new license. In 2006, the Settlement Agreement for Licensing of the Oroville Facilities was signed by DWR and 51 stakeholders.

The Settlement Agreement (SA) identifies actions by DWR that will benefit environmental, recreational, cultural, land use, and engineering and operations resources. The benefits of the SA to the local Oroville area and broader region include increased recreational facilities and the provision of a $62 million community-controlled supplemental benefits fund.

In addition, the SA allows improved opportunities for public involvement in implementation of the new project license. The SA actions allow DWR to continue to operate the Oroville facilities to meet the needs of power generation, water supply, flood management, and water quality improvement in the Sacramento - San Joaquin Delta. The SA was filed with FERC in 2006.

The SA actions are currently undergoing environmental review by State and federal resource agencies and FERC. Upon completion of this review, FERC will issue a new license.

Visitors Center

The Lake Oroville Visitors Center, overlooking the lake, offers visitors information about lake recreation, attractions in the region and a variety of film and static displays about the history and construction of Oroville Dam and the SWP.

Operated jointly by State Parks and DWR, the center has a 47-foot viewing tower that offers wide vistas of the lake, dam crest and upper Sacramento Valley, including the Sutter Buttes. Located at 917 Kelly Ridge Road, the center is open free of charge to visitors from 9 a.m. to 5 p.m. daily except on Thanksgiving, Christmas and New Years. The phone number is (530) 538-2219.

Another big attraction is the Feather River Fish Hatchery, located on the Feather River in Oroville, where hatchery salmon are nurtured by the millions. DWR funded the hatchery's construction to mitigate for the loss of upper Feather River spawning areas when the dam was built. The hatchery is operated by the Department of Fish and Game.

Oroville Dam Guide Recalls Floods, Droughts and Quakes During Four Decades of Service

By John Ford

Editor's note: John Ford grew up on a ranch five miles from the site of Lake Oroville. As a youngster, he witnessed the construction of the dam. He spent a career of almost 40 years as a guide for Oroville Dam visitors. We asked him to give us his memories of service with the Oroville Field Division. Here's his first-person report.

I started with the Oroville Field Division in the spring of 1972 as a youth aide earning $1.80 an hour. Little did I imagine I'd have a 37-year career with DWR. In 1974, I was assigned to staff the new permanent Visitor Center perched on the highest point of Kelly Ridge, overlooking Oroville Dam and Lake Oroville. This $1 million facility was an architectural gem then and still is.

On August 1, 1975, I was at the counter of the Visitor Center when terra firma suddenly didn't feel so firm. It was a short shock but our visitors, a Parks ranger and I all knew we had just been through an earthquake. It measured 5.7 on the Richter scale. Reactions varied. One lady was upset but we calmed her. Another lady who appeared from our movie theater asked, "When is the next movie?" This enraged the lady who'd been upset. "Next movie," she shouted, "Next movie. We just had an earthquake!" "I am from Hayward," replied the movie lady, "we have those all the time."

After months of reports and studies, it seems the 1975 quake proved how sound and strongly built Oroville Dam truly is. (Editor's note: The quake halted construction of the Federal Auburn Dam, 50 miles to the south, on the American River. Though redesigned for greater quake safety, the Auburn Dam was shelved in the 1980s, due chiefly to rising cost estimates. Advocates still lobby for its construction.)

Our next test at Lake Oroville came very soon with two severe drought years, 1976 and 1977. These were two of the driest years on record in California, and a stiff challenge to the SWP's water supply.

The 1980s began with more productive water years. The 1981-82 winter was one of the best on record. In 1986, nature reminded us of another Oroville Dam responsibility to downstream communities: flood protection. In mid-February, Oroville Dam contained one of the highest flow events in the Feather River Basin.

No sooner did our operations personnel skillfully manage this flood control challenge than we faced one of the longest droughts in modern California history, from 1987 to 1992. Those were years when Lake Oroville had a wide red shoreline, but still provided plenty of recreation for visitors.

In May 1993, we celebrated the 25-year anniversary of Oroville Dam's completion. As the newly promoted Senior Guide for OFD, I was assigned to provide an "Open House" tour of the Edward Hyatt Pumping Generating Plant, deep under the dam. **Linda Sue Solomon**, who worked in Operations, provided the computer skills needed for us to enable 800 visitors to make the half-mile trek into and back from Hyatt. Twenty DWR personnel provided security and answers to our visitors' power questions. The Hyatt Open House became a traditional event as part of the local Oroville community's Feather Fiesta Days.

Unfortunately, after the tragic September 11, 2001 terrorist attacks, security required closing sensitive SWP facilities, including Hyatt, to the public.

As the 1990s drew to a close with major flood events in Northern California in 1997 and 1998, Oroville Dam again provided a safeguard against flooding for downstream communities. The 1997 peak inflows and releases were the highest in the dam's history.

In 2004, the C.A.S.T for Kids events were introduced to the SWP with events at Lake Perris and Oroville. I'm very proud to be part of this wonderful program.

A true career highlight for me came in 2005 when the U.S. Postal Service contacted me for input on a collection series of stamps called "Wonders of America" that considered including Oroville Dam, as Tallest Dam in the U.S. Finally, Oroville Dam was going to get some respect. I had to keep this postal honor a secret until the collection series was issued in 2006, with Oroville Dam included in the collection of U.S. "wonders."

Be it earthquake, drought, flood, environmental impact or security to thwart terrorism, I have always been most impressed with how the Department keeps pushing forward and the water flowing at Oroville Dam and Lake Oroville.

Natural Bounty of Butte, Plumas Counties Nurtures Farm Wealth, Outdoor Recreation

By Pete Weisser

The rugged natural splendor of Butte and Plumas counties nurtures highly productive farm output and attracts enthusiastic outdoor recreationists. DWR's Oroville Field Division includes covers 48,000 acres of land in the two counties, which share a vivid frontier legacy and a modern commitment to nature-oriented tourism.

Butte County's farms, rice fields and orchards are among the most productive in Northern California. Walnut and almond crops grown here ring up a combined annual income over $200 million, with rice generating sales over $180 million, according to 2009 figures from the Butte County Farm Bureau. Natural attractions include Feather Falls, sixth highest waterfall in the United States, excellent lake and river angling, boating, hiking and camping attractions.

Spacious and scenic, Butte County is highly rated for recreation by Cycling Magazine and Bassmaster Magazine. Kiplinger Magazine ranks Butte County as one of the five best places to retire in the U.S. The county has 1,677 square miles, with a population of about 217,000.

Plumas County, heavily forested and endowed with dozens of fishing lakes, attracts many outdoor recreation and vacation visitors. Three SWP lakes are among the many fishing destinations in the sparsely-populated county—Antelope, Frenchman and Davis. With a countywide population of slightly more than 20,000, Plumas County encompasses more than 2,610 square miles, including portions of three national forests—Lassen, Plumas and Tahoe.

Historically, the region boasts two icons of California's early days, an African-American explorer named James Beckwourth, and Ishi, the last of California's Indians to freely live a traditional tribal life.

Frontier scout and mountain man, James Beckwourth discovered a safer route into California for emigrants traveling overland. An African-American born into slavery in Virginia in 1798, he explored the American west as a fur trader, living with Crow Indians for several years.

Active as a fur trader on the Arkansas River, in the Rockies and along the Old Spanish Trail, he served as a U.S. Army Scout during the Mexican-American War and joined the Gold rush to California.

In 1850, he was credited with discovering Beckwourth Pass, a low-elevation pass through the Sierra, subsequently establishing Beckwourth Trail for use by miners heading for the Marysville gold fields. After ranching and trading in California, he returned to Colorado, where he resumed trapping. He died in 1866.

The other iconic figure in Butte regional history is Ishi, considered the last surviving member of his tribe, the Yahi. Born about 1860, in 1911 Ishi emerged from the wild at Oroville, nearly starved. The local sheriff took custody of Ishi for his protection. He walked into the white man's world only after all his other tribal members had died or departed the region.

Alfred Kroeber and other University of California anthropologists interviewed him and brought him to the University of California, San Francisco campus, where he lived for about five years in a museum setting. Ishi cheerfully cooperated with his faculty benefactors, providing them with information about Native American life, customs and values. He died of tuberculosis in 1915.

Kroeber's wife, Theodora, also an anthropologist, wrote a biography of Ishi, based on her husband's notes. Published in 1961, the book is entitled: "Ishi in Two Worlds".

Better known to today's sports fans is another Butte County native, Aaron Rodgers, quarterback for the Super Bowl Champion Green Bay Packers. Born in Chico in 1983, Rodgers starred at quarterback at Pleasant Valley High School in Chico for two seasons in the late 1990s.

Ignored by major college recruiters because of his relatively small size (5-10, 165 pounds), Rodgers played at Butte Community College in Oroville for one season. Recruited to Cal, Rodgers excelled at University of California, Berkeley in 2003 and 2004.

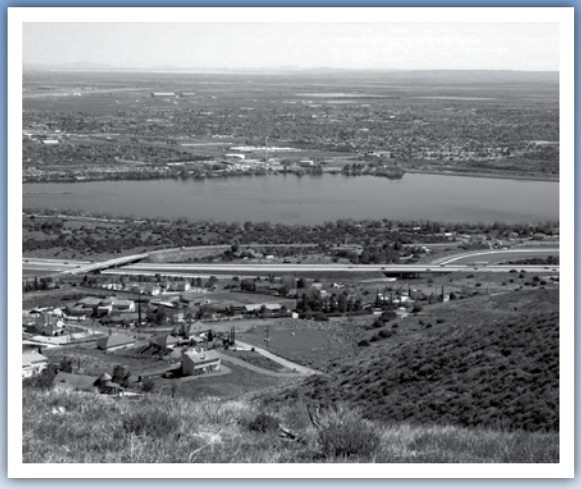
Selected by Green Bay in the 2004 draft, Rodgers was a backup to Brett Favre at Green Bay in 2005-2007 before becoming the starting QB in 2008. Rodgers led the Packers to a 31-25 triumph over the Pittsburgh Steelers in Super Bowl XLV played February 6, 2011. Rodgers won MVP honors for that game.

MISSION OF THE PALMDALE WATER DISTRICT:

The Mission of the Palmdale Water District is to provide high quality water to our current and future customers at a reasonable cost.

VISION STATEMENT

The PWD will strive for excellence in providing high quality, reasonably priced water in a growing Antelope Valley by participating in local and regional water issues as a strong advocate for our customers, public education, asset management, water conservation, planning and securing additional water supplies, continuing our commitment to operate efficiently with the help of emerging technologies, challenging, motivating and rewarding our employees and offering premium customer service in all we do.



State Water Project water enters Palmdale Lake where it is stored for future water use.

Since the days of wooden water pipes and earthen ditches, Palmdale Water District has been delivering water to meet the current and future needs of residents in the Palmdale area.

Located in the high desert region of the Antelope Valley approximately 60 miles northeast of downtown Los Angeles, Palmdale is one of the fastest-growing cities in America. To meet the water supply needs of the city and adjacent unincorporated areas of Los Angeles County, Palmdale Water District (PWD) operates a 405-mile distribution system, including 52 million gallons of potable water storage, and 7,750 acre-feet of raw water storage in two open surface reservoirs (Littlerock and Palmdale).

The district acts either as a wholesaler of State Water Project (SWP) supplies or becomes the retailer in areas currently outside its primary service area.

History

Palmdale Water District, which evolved from the Palmdale Irrigation Company in 1886, originally provided irrigation water for 60 customers. Today, PWD serves approximately 115,000 people through 27,000 water service connections.

"The district is successful in large part because of the foresight of past directors and managers," said General Manager **Dennis LaMoreaux**. "Examples of this include the first construction of Palmdale Lake Dam and Palmdale Ditch in 1886, construction of Littlerock Dam in1924, becoming a State Water Project contractor in the early 1960's, and the recently completed improvements to the Leslie O. Carter Water Treatment Plant using Granular Activated Carbon to meet upcoming disinfection byproducts water quality regulations."

Prior to the 1950's, Palmdale Irrigation District's boundaries were primarily agricultural. Today, due to population growth, most water is delivered for municipal and industrial use.

To cover increasing water supply demands, the district entered into an agreement to purchase water from the State Water Project in 1963.

Due to population growth from 1965 to 1985, water usage increased from 4,100 acre-feet to 8,000 acre-feet per year, and more than doubled in the following five years. To keep up with the demand in 1987, PWD constructed a water treatment plant to process 12 million gallons of water a day and began planning with Littlerock Creek Irrigation District for new renovations to Littlerock Dam.

By 1993, the water treatment plant was expanded to allow for its production of up to 30 million gallons per day. Two years later, Littlerock Dam's rehabilitation was completed, doubling the reservoir's capacity. New recreational facilities also were added at the reservoir.

Dennis LaMoreaux has been General Manager of Palmdale Water District for more than 15 years.

General Manager

"The current directors and I intend to continue the rich history of PWD by improving customer interfaces and interactions with the best available technology, developing additional water supplies locally and associated with the SWP, playing a key role in regional water planning and issues, maintaining high construction standards to ensure a reliable, long life of infrastructure, and continuing to evaluate and improve all aspects of the District's operations," said LaMoreaux.

LaMoreaux has worked more than 22 years for Palmdale Water District. He was hired as Assistant General Manager in 1989. From 1994 to 2008, he served as General Manager. After two years as Assistant General Manager and District Engineer for Rosamond Community Services District, he returned to the Palmdale Water District as General Manager in January of 2010.

As General Manager, LaMoreaux is responsible for overseeing the District's day-to-day operations and business functions according to the direction and policies established by the Board of Directors.

His previous employment includes private engineering consulting firms in California and Wyoming where he was involved in design and inspection of a variety of projects.

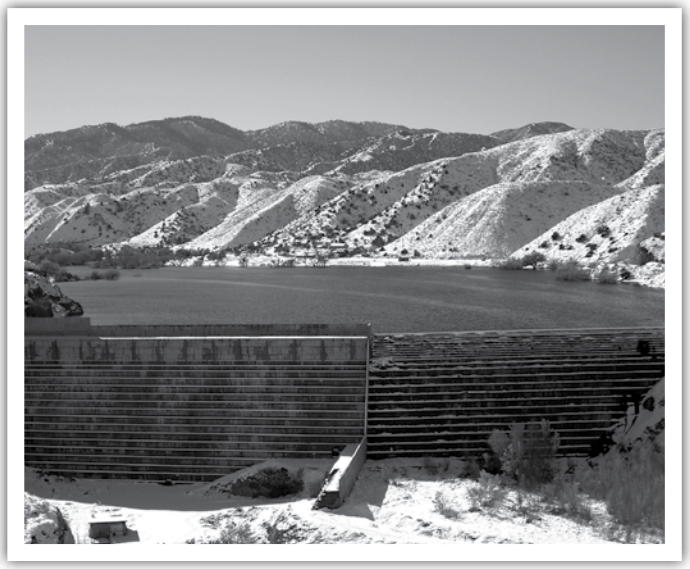
A native of Ohio, LaMoreaux graduated from the University of Wyoming in 1984 with a Bachelor of Science degree in Civil Engineering. He is also a licensed Civil Engineer in California.

Water Supply

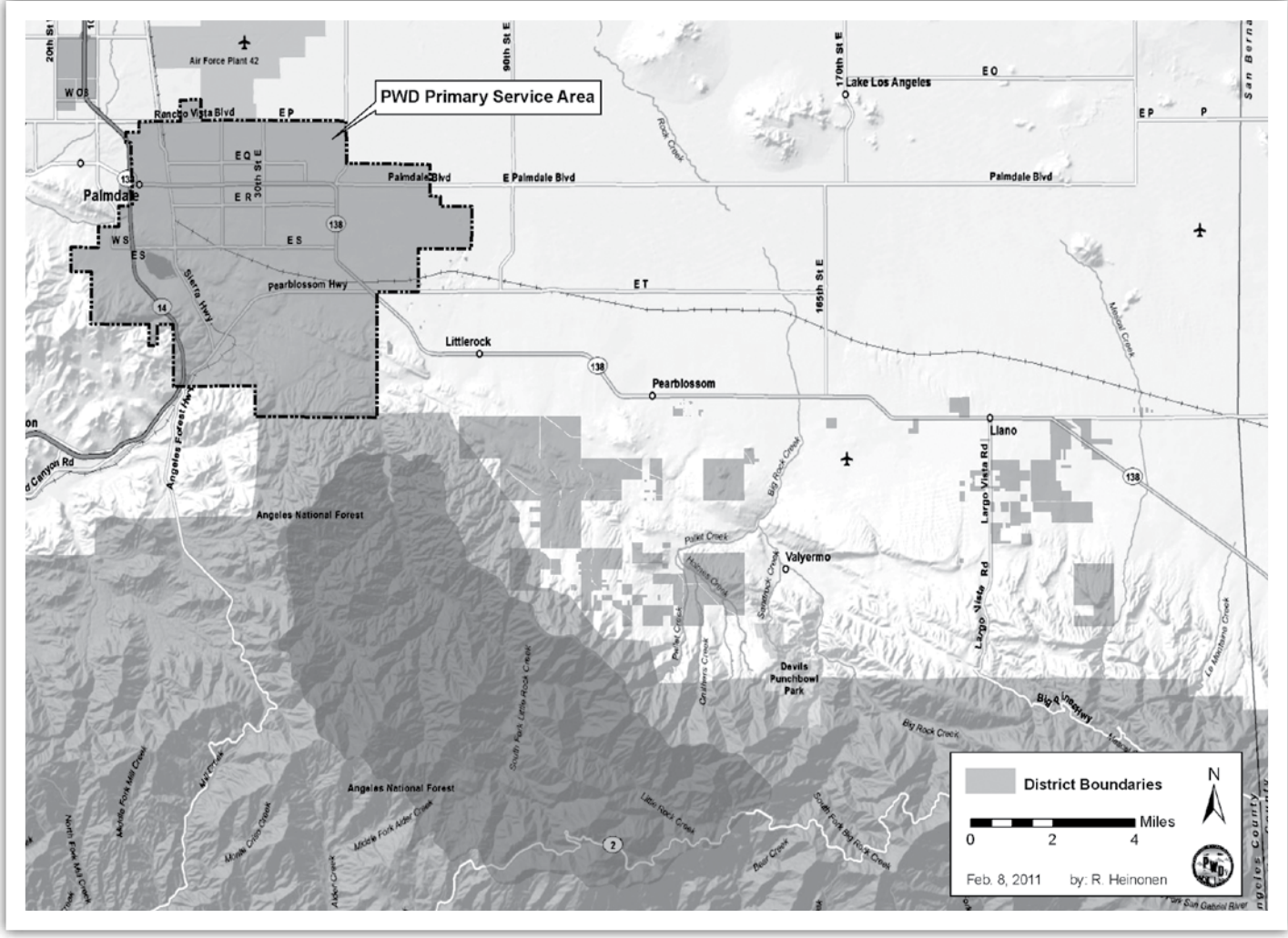
The three sources of water for PWD in an average year are 50 percent from the State Water Project, 40 percent from wells, and 10 percent from Littlerock Dam and Reservoir.

"The district is developing a Strategic Water Resources Plan, CEQA and NEPA review of a sediment maintenance program for the Littlerock Reservoir, and replacing 1950's-era water mains to control water losses and repair costs," said LaMoreaux about PWD's current projects to help maintain the water supply for customers.

Littlerock Dam and Reservoir, located in the San Gabriel Mountains within the Angeles National Forest, collects runoff from a 65-square-mile watershed and has a storage capacity of



Above: *Located in the San Gabriel Mountains and occasionally covered with snow, Littlerock Dam was constructed in 1924 and rehabilitated in 1995.*
Below: *Leslie O. Carter Treatment Plant, located in Palmdale, has the capacity to treat 30 million gallons per day.*



PALMDALE WATER DISTRICT BOUNDARY MAP

3,500 acre-feet. The eight mile Palmdale Ditch moves water from Littlerock Reservoir to Palmdale Lake. Palmdale Lake also receives water from the SWP.

PWD's Table A amount is 21,300 acre-feet of water each year from the SWP's California Aqueduct into Palmdale Lake where it is stored for future water use. The Leslie O. Carter Water Treatment Plant pulls and treats water from Palmdale Lake for potable use in the primary service area.

"With the installation of the Palmdale Lake hydro-electric station turbine in 2006, it has allowed PWD to generate electricity from the water flowing from the California Aqueduct into Palmdale Lake," said LaMoreaux.

Water Conservation

To help benefit its customers, PWD has several water conservation programs. Because most people use the greatest amount of water on lawns and landscaping, the goal of these programs is to reduce water usage related to excess landscape watering.

Specific water conservation programs include a cash-for-grass program, a toilet rebate program, a washing machine rebate program, and a Matched Precipitation (MP) rotator rebate program. PWD also promotes its educational program through the local school districts and offers tours of its facilities to all organizations. A water budget rate structure, which encourages water conservation, was adopted in 2009.

"Our customers have been very responsive to our water conservation message. PWD has seen a 12.6 percent reduction when comparing 2010 water usage and consumption to that of 2009," said LaMoreaux.

DWR Presents Sacramento Regional Science & Engineering Fair Awards

By Jennifer Iida

Award recipient Logan Moore of E.V. Cain Middle School.

***(Left to Right)** DWR award recipients Avni Nadar and Sahithi Bonala of Mira Loma High School.*

Bill Gates and Mark Zuckerberg can scoot on down the road because we have our own best and brightest to be proud of at the annual Sacramento Regional Science and Engineering Fair.

The fair, held on March 19 at Sacramento's Rosemont High School showcased students in the greater Sacramento region who may be destined to become our future scientists, technology experts, engineers, and mathematicians. This competition celebrates achievement by hundreds of the area's middle and high school students, who reach beyond the classroom challenge to tackle tough research in the science and engineering field.

E.V. Cain Middle School sixth grader, Logan Moore's project, "Does fertilizer affect the rapidity of algal growth?" captivated the DWR judges and scored highest in the Junior Division in the DWR 2011 award. While the Mira Loma High School team of Sahithi Bonala and Avni Nadar clenched top honors in the Senior Division. Their study was on creek environments and low dissolved oxygen content.

Logan said, "I've always been a curious kid and plan on becoming an environmental scientist because I want to have a job where I can protect nature and keep our earth clean. Winning this award inspires me to come again next year and expand my project." His hypothesis proved that fertilizer would definitely help algae to grow but with indoor and outdoor contradictory results.

The 15-year-olds Sahithi Bonala and Avni Nadar have been best-friends since the third grade. They both admit to being enthusiastic science geeks and they both aspire to add the title M.D. to their names in the future.

"Winning this award will definitely extend this project to take it to the next level of research and results," said Sahithi.

The girls found their results were very specific because Willow Creek lacked plant and animal life so results showed that flow rate does not affect alkalinity hardness in dissolved oxygen, but theorize on a larger scale, it does.

"Water quality is such a big issue for our environment and we believe all possible efforts to maintain water quality should be taken," said Avni.

Strict criteria for the competition included relevance to water management, originality in design, and adherence to scientific method.

A huge thank you to the DWR judges who volunteered for the difficult task of selecting winners in this group of high achievers. The DWR special award judging panel consisted of Water Education Specialist **Michelle Robinson**, FloodSAFE Communications Specialist **Cait Plantaric**, Engineering Geologist **Toni Pezzetti**, FloodSAFE Coordination Specialist **Michael Mierzwa**, Water Resources Engineer **Michal Koller**, and Environmental Scientist **Erin Brehmer**.

***Left to Right:** (Front) The DWR special award judging panel consisted of Water Resources Engineer, Michal Koller; Engineering Geologist, Toni Pezzetti; FloodSAFE Coordination Specialist, Michael Mierzwa. (Back) Environmental Scientist, Erin Brehmer; Water Education Specialist, Michelle Robinson; and FloodSAFE Communications Specialist, Cait Plantaric.*

"It was great to talk with all of the students about their projects, but the abundance of outstanding work made it very difficult to pick just one winner from each division," said Michelle. DWR also hosted a booth at the event which highlighted water engineering and conservation.

The winners received a certificate from DWR plus statewide recognition in this publication.

The top three grand prize winners of the overall competition advanced to an all-expenses-paid trip to the Intel International Science and Engineering Fair in Los Angeles, the week of May 8-13, 2011.

In addition, more than 25 companies and organizations presented special awards.

Consulting Board for Earthquake Analysis 2011 Workshop

By Marvin Woods

With more than 1,250 dams, a population of 37 million people, and more than 100 active faults capable of generating dam-damaging earthquakes in California, there is no question that DSOD staff need to be experts in earthquake engineering.

To ensure that the Division of Safety of Dams' (DSOD) earthquake engineering procedures are on target, DSOD hosted the "Ninth Consulting Board for Earthquake Analysis Workshop" on February 10-11, 2011 in West Sacramento. This workshop, also known as the "Shakey Board Meeting," is an opportunity for a panel of renowned experts in seismic hazard analysis to review DSOD's current dam safety practice and provide advice in shaping future practice.

"The team spent many weeks researching and analyzing earthquake data, preparing formal presentations, and accepting critical review from fellow team members in preparing for the meeting," said **Bill Fraser**, Chief of DSOD's Geology Branch and Meeting Program Manager. "The effort paid off, as the Board as well as the guest attendees were complimentary of the clarity of the presentations and our understanding of California's seismic hazard and ground motion development procedures."

The dozen technical presentations during the two-day workshop covered several topics, such as DSOD's earthquake engineering analysis techniques, existing seismic hazard analysis, design ground motion development procedures, minimum earthquake parameters, and selection of a safety evaluation earthquake using the consequence hazard matrix.

"We take dam safety very seriously due to the potential consequence of dam failure here in California," said DSOD Chief **David Gutierrez**. "We must ensure dams are safe, but also need to be conscious of dam owners' resources. We need to base our policies and analytical procedures on an understanding of the state-of-the-art while applying appropriate state-of-the-practice with respect to dam safety. The very unfortunate events that recently occurred in Japan remind us of our need to pay close attention to the potential effects earthquakes can have on the citizens of our State."

The three seismologic board experts included **Dr. Jonathan Stewart**, a geotechnical engineer from the University of California, Los Angeles, **Dr. Ralph Archuleta**, an engineering seismologist from the University of California, Santa Barbara, and **Dr. Yousef Bozorgnia**, an engineering seismologist from the Pacific Earthquake Engineering Research Center.

Above: *Sharon Tapia,Chief of Design Engineering Branch, giving a presentation at workshop.* ***Bottom:*** *DSOD Chief David Gutierrez (left) talking with Dr. Ralph Archuleta, engineering seismologist from the University of California, Santa Barbara.*

During this 2011 meeting, the participants focused mainly on two issues, including use of the 2008 "Next Generation Attenuation" (NGA) formulas for estimating earthquake ground motions at a particular site (NGA is new relative to the previous

2005 Shakey Board) and DSOD's increasing use of earthquake ground motion time histories in their seismic stability analyses of dams.

Presentations were given by Division Chief David Gutierrez, Geology Branch Chief Bill Fraser, Design Branch Chief **Sharon Tapia**, Senior Engineering Geologist **Jeff Howard**, Senior Engineering Geologist **Marvin Woods**, Engineering Geologist **Chris Tracy**, Design Engineer **Erik Malvick**, and Design Engineer **Richie Armstrong**. This meeting was organized by **Rebecca Mills**, Executive Secretary to DSOD Chief David Gutierrez and **Amy Jackson**, who produced the binders containing all of the presentations that were provided to select workshop attendees.

"DSOD staff presented 14 specific questions to the Board, to which they provided initial verbal responses at the end of the second day," said Marvin Woods, a DSOD presenter. "We are looking forward to a written report in a few weeks and a follow-up meeting with the Board sometime early next year. We have already begun implementing some of their recommendations."

Examples of the recommendations from these experts include: (1) make greater use of recently developed high-resolution models of the deep sedimentary basins within California in predicting basin shaking effects; (2) develop our own synthetic time histories for large-magnitude earthquakes at close distances using the now publicly available software maintained by the Southern California Earthquake Center; and (3) consider a fully probabilistic approach to seismic hazard in the Sierra Nevada Range where the locations of active faults are poorly known, compared to coastal regions of the State. These and several other specific Board recommendations will serve to shape future DSOD seismic hazard analysis direction.

(Left to Right) Dr. Bozorgnia, Dr. Archuleta, Dr. Stewart of the Consulting Board discussing a point of interest during one of the presentations.

"At this 2011 workshop, we received very helpful suggestions for improving aspects of some of our analytical procedures, but we also received encouraging assurance that our overall approach to dam safety analysis with respect to earthquake hazards is consistent with the state-of-the-practice," said Marvin. "The Board was impressed with our overall level of expertise."

Another purpose for these meetings is to provide an effective "transfer of knowledge" to less experienced DSOD staff members. All staff of DSOD's Design Engineering Branch and staff from the Field Engineering Branch attended the event. In addition, staff from DWR's Division of Engineering attended, as well as guests from the Army Corps of Engineers and the Federal Energy Regulatory Commission.

"During the workshop, the Board provided constructive comments regarding the techniques used in our advanced engineering analyses," said Sharon Tapia. "As our analyses become more complex, the precision of the ground motion estimate and how it is applied to the model of the dam becomes more critical, especially when analyzing dams that have a marginal factor of safety with respect to seismic stability."

As DSOD moves forward on its mission to ensure the safety of California's dams, staff will continue performing critical seismic hazard and earthquake engineering analyses with the confidence that their methods and techniques are at the forefront of current practice. In a few years, they will once again check those practices at the next "Shakey Board" workshop.

Birth Announcements

Congratulations DWR Parents:

Lianwu Liu, Engineer with the Bay-Delta Office, has a son named Max Zhang, who was born on March 31, 2011 weighing 7 pounds, 8.6 ounces and measuring 19.5 inches long.

Vincent Ly, Assistant Information Systems Analyst with the Bay-Delta Office, has a daughter named Alani Linhchi, who was born on April 21, 2011 weighing 4 pounds, 14 ounces and measuring 17 inches long.

Sherry Constancio, an engineer with DWR's Eureka Flood Center, holds Alquist Seismic Safety Commission Resolution.

Eureka Flood Center receives *Seismic Award*

By Jennifer Iida

2011 kicked off to an exciting start for the DWR Eureka Flood Center. DWR staff received recognition by resolution from the California Alfred E. Alquist Seismic Safety Commission for "exemplary leadership in seismic safety preparedness education and outreach."

The role of the Seismic Safety Commission is to investigate earthquakes, research earthquake-related issues and reports, and recommend to the Governor and Legislature policies and programs needed to reduce earthquake risk.

"The resolution is likely a direct result of our efforts here over the past few years in the regional organization and participation in the Great California Shake Out," said Sherry Constancio, DWR engineer with the Eureka Flood Center, who was pleasantly surprised by the award.

"The Great California Shake Out" is a drill held on the third Thursday of October each year. More than 7.9 million Californians participated in 2010. Participants practice the 'drop, cover, and hold-on' drill to protect themselves during an earthquake before strong shaking knocks them down or drops something on them.

Sherry mentioned other related endeavors she felt contributed to the resolution.

- Participating member of the Redwood Coast Tsunami Work Group – recognized as the model for interagency coordinated (tsunami) mitigation programs
- Representation and participation in the California Tsunami Steering Committee (sponsored by Cal EMA)
- Participation in the organization and implementation of the annual Tsunami Warning Live Code Communications Test (sponsored by NOAA and Cal EMA)
- Participation in the June 14, 2010 Earthquake and Tsunami Preparedness Day, which included separate workshops for government agencies, businesses and the public for emergency coordination and contingency planning – the Eureka Flood Center hosted a table along with other agencies related to "response and recovery"
- Volunteer/Sponsor for the Redwood Coast Tsunami Work Group "Earthquake-Tsunami Room" at the Del Norte and Humboldt County Fairs

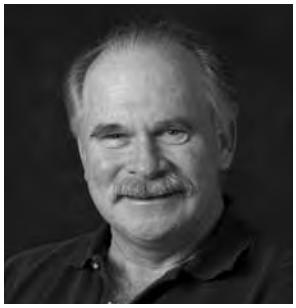
Active geologic fault lines immediately off the California coast put coastal California at risk for large-scale earthquakes and devastating near-source tsunamis. Given the historical record and ongoing threat, DWR and the Eureka Flood Center have taken an active role in the collaborative emergency preparedness and outreach activities within the region.

A large part of this effort is the involvement in the Redwood Coast Tsunami Work Group, which works "to promote a coordinated, consistent mitigation program for all coastal areas." Participation with this group allows DWR Eureka Flood Center to contribute to its vital mission and just as importantly, to build and maintain relationships with flood emergency response partners from other federal, State, tribal and local organizations.

"It's certainly nice to know our efforts in coordination and outreach are acknowledged and appreciated," said Sherry regarding receipt of this resolution.

Twenty-Five Years of Service

Jennifer Bingaman
Central Valley Flood Protection Board
Associate Governmental Program Analyst
March 2011



Ted Bruce
Engineering
Senior Engineering Geologist
June 2011

Tommy Deaton
Operations and Maintenance
Senior Water and Power Dispatcher
April 2011

Kevin Dossey
Operations and Maintenance
Oroville Field Division
Senior Engineer
March 2011

Sergio Guillen
Flood Management
Supervising Engineer
March 2011

Lewis Moeller
Statewide Integrated Water Management
Supervising Water Resources Engineer
March 2011

Ron Pereira
Operations and Maintenance
San Luis Field Division
Hydroelectric Plant Mechanical Supervisor, March 2011

Saeid Raoufi
Operations and Maintenance
Supervising Hydroelectric Power Utility Engineer
May 2011

Douglas Rischbieter
Environmental Services
Staff Environmental Scientist
May 2011

John Williamson
Flood Management
Water Resources Technician II
April 2011

No Photo Available

Michael Floyd
Integrated Regional Water Management
Supervising Engineer
June 2011

Structural Engineer Exam Graduate

Sassan Soltani
Flood Management
Senior Engineer
February 2011

Kevin Faulkenberry Faces New Tasks in Familiar San Joaquin Valley Setting

DWR's **Kevin Faulkenberry** has worked on familiar river restoration projects in the San Joaquin Valley for more than 20 years, but he faces new challenges these days.

Since December 2010, Faulkenberry has been adjusting to life as Chief of DWR's South Central Region Office, formerly known as the San Joaquin District Office. His responsibilities include providing leadership for 60 DWR employees in the office at 3374 E. Shields Avenue in Fresno, most of them former colleagues and work partners.

"I have many new and interesting things to learn in my new job," Kevin reports, "but I will continue river restoration as one of my main goals and interests in this job."

A Registered Civil Engineer, Kevin began working for DWR in 1989, right after graduating from California State University, Fresno.

He's invested more than two decades in working on riverine restoration in the Central Valley, including the Calaveras, Merced, San Joaquin, Stanislaus and Tuolumne rivers. He's also labored on several Central Coastal rivers, including the Carmel River that flows into Carmel Bay, near historic Mission San Carlos Borromeo. Projects addressed many distinct aspects of river work, including river habitat enhancement, flood management and fish passage.

"I've worked on many programs for the Department, but the projects I have enjoyed the most are those in my own back-yard, the San Joaquin River," states Kevin.

His San Joaquin River work dates back to the early 1990s after he helped Paula Landis, then a DWR field engineer, work on fish issues and Merced River restoration. Landis in 2000 became Chief of DWR's San Joaquin District Office after a three-year stint working on San Joaquin River issues for the U.S. Bureau of Reclamation.

From 2006 until his recent promotion, Kevin was DWR Program Manager for the San Joaquin River Restoration Program, one of the most ambitious river restoration programs in the United States. It's based on a 2006 Federal court agreement that settled an 18-year lawsuit over use of the San Joaquin's water.

The program seeks to revitalize a 153-mile segment of the San Joaquin River—California's second-longest river— from Friant Dam near Fresno, to its confluence with the Merced River.

Program managers hope to reduce or avoid adverse impacts to Friant water users—more possible in the current wet water conditions than during three recent drought years—and to restore and maintain salmon populations in the San Joaquin. Fish reintroduction is planned for 2012.

"Everything about this program has been a challenge, but the work is very rewarding," says Kevin. DWR and the Department of Fish and Game are the two California agencies working on this restoration effort, along with three Federal entities: The U.S. Bureau of Reclamation is the lead Federal agency, with technical assistance by the U.S Fish and Wildlife Service and the National Marine Fisheries Service.

Kevin has worked closely with many key DWR professionals in the Fresno region and the Department on many river projects. He also has a close working relationship with his Divisional boss. Paula Landis is now Chief of DWR's Division of Integrated Regional Water Management, a post she's held officially since March, 2010. She had been the Division's acting manager since 2007, while also performing the duties of Chief of the San Joaquin District Office.

The reorganization of former district offices into regional offices reflects DWR's commitment to supporting regional water management efforts in solving water issues. The regional offices are seen as an improved structure for working with local governments, agencies and stakeholders in addressing their water management issues.

The divisional structure helps DWR work effectively at the local and regional level through technical and financial assis-tance, according to Landis.

Paula's divisional headquarters are located at the South Central Region building in Fresno. She supervises it, along with other regional offices in Red Bluff, West Sacramento and Glendale, and two branch offices in Sacramento. The regional offices are staffed by about 250 DWR personnel.

Kathie Kishaba Appointed Deputy Director of Business Operations

With 20 years of DWR service in the Budget, Public Affairs, Land and Right of Way, and Bay-Delta offices, **Kathie Kishaba**, former Chief of the Budget Office, became the new Deputy Director of Business Operations on March 2.

In her new appointment, Kathie will direct a staff of about 400 employees in the divisions of Fiscal Services, Management Services, Technology Services, Internal Audits and Workforce Equality.

"First and foremost, I will work with our talented Business Operations staff to ensure administrative processes are running smoothly and efficiently so that the Department can carry out its multiple missions. I also plan to invest time developing and maintaining good working relationships with the control agencies by helping to educate them about our Department's unique activities," said Kathie about her new assignment in Executive. "I would also like to seek efficiencies and implement practices to stabilize overhead expenditures in the Department."

As the Department's Budget Officer since 2003, Kathie has been responsible for the development and administration of DWR's multi-billion dollar budget. She managed a staff of 17 whose primary function is to secure and administer the necessary resources to carry out the Department's programs.

"I consider the Budget Office as a "hub" because our activities cross all areas of the Department, including the line programs and organizations, human resources, contracts, accounting, training, travel, technology services, SAP, and more," said Kathie. "In working with Executive management, program managers, administrative staff, and even external parties, I have come to appreciate the complexity and importance of the Department's programs for the State of California and understand the criticality of maintaining solid business operations support."

Being a Budget Officer during one of the worst fiscal crises in the State's history has resulted in major challenges. Budget reductions, general obligation bond freezes, position cuts, furloughs and legal challenges detract from the Department's mission. During these difficult fiscal times, Kathie has worked closely with other Department managers to carry out directives while keeping the Department's best interests in mind.

In 2010, Kathie was part of a team that implemented the Enterprise Budget Planning (EBP) system which provides a user-friendly electronic interface for the development of DWR's annual fiscal year budget. In less than one year, Kathie and her team blue-printed, designed, implemented and trained hundreds of DWR staff on the new system which has improved and streamlined budget planning activities.

Before joining the Budget Office, Kathie worked in the administrative sections of the former Division of Land and Right of Way from 1990 to 1994, the Office of Water Education (now Public Affairs Office) from 1994 to 1996, and the Bay-Delta Office from 1996 to 2003.

As one of her first assignments upon joining the Department, Kathie created a database to track encroachment permits which had historically been catalogued on paper cards. She recalls, "I used a database program called Paradox. It's fascinating to see how technology has evolved since then!"

In the Bay-Delta Office, Kathie worked on the initial implementation of SAP as a "Super User" and also facilitated the BDO reorganization as a result of the Department's involvement in the CALFED Bay-Delta Program.

Kathie, who was raised in Chico, earned her Bachelor of Arts degree in Social Science from the University of California, Berkeley. She also has a Master of Business Administration degree from the University of California, Davis' Graduate School of Management.

A resident of Davis, Kathie enjoys traveling and spending time with her husband and two sons, ages 11 and 7, at their sporting events.

New DWR Sustainability Coordinator

DWR's new Sustainability Coordinator, **Mary Simmerer**, will be responsible for leadership and direction of DWR's Sustainable Policy, and Sustainability Targets.

DWR's goal is to construct a place that promotes a healthier environment by using energy, water and other natural resources more efficiently, which, in turn, will reduce our impact on the environment.

Mary, who is new to DWR, joined the Executive Office on January 24. Mary brings her passion for sustainability to DWR from Arizona where her most recent position was as an environmental policy analyst for the Arizona House of Representatives. As an environmental policy analyst, she was involved in all areas of environmental concerns including water, energy, natural resources and land use.

Prior to her Legislative assignment, Mary was head of the Drinking Water Compliance and Enforcement Unit for the Arizona Department of Environmental Quality, where she had oversight for drinking water quality for the State of Arizona.

Mary has a Bachelor of Science degree in Biology and a Master's in Public Administration. She is currently working on a Ph.D. in Public Administration, focusing on sustainability and public institutions.

Unit Citations

In November of 2010, DWR presented the following three unit citations.

Left to Right: *Ralph Torres, Cathy Crothers, Vera Sandronsky, Lori Brown, Matthew Goldman, Jess Cason, Steve Cohen, Jerry Johns (Not Pictured: Dan Flory, Susan Weber, Denise Hoffman, Regina Tochterman)*

Hyatt-Thermalito Litigation Team

DWR staff from the State Water Project Analysis Office (SWPAO) and the Office of the Chief Counsel with staff from the Attorney General's Office were honored for their work on a lawsuit brought against DWR on April 25, 2005 by 14 of the 29 State Water Contractors. These contractors claimed the method used by DWR to allocate costs and revenues of the Hyatt and Thermalito Powerplants at Lake Oroville violated the terms of long-term water supply contracts. However, thirteen other water contractors intervened in support of the Department. The Litigation Team developed the strategy and evidence that ultimately allowed the Department to prevail. The team also responded to significant discovery requests and motions filed by the plaintiffs. The case involved complex legal issues in the interpretation of the long-term water supply contracts. The judge's ruling in the Department's favor validated years of effort by the Department to allocate the power revenues consistent with the long-term water supply contracts.

Monterey Agreement Environmental Impact Report Team

DWR staff from the Environmental Services, SWPAO, and Legal Divisions completed more than a decade of work on one of the most complex Environmental Impact Reports (EIR) in the Department's history. The Monterey Agreement EIR involved close participation and collaboration with representatives of the State Water Contractors, the Planning and Conservation League, and Plumas County. The EIR contains a detailed environmental analysis of the effects of the Monterey Agreement, including impacts to the Sacramento-San Joaquin Delta, water transfers, storage outside of contractors' service areas, Kern Water Bank implementation, and flexible withdrawal of project water from the SWP terminal reservoirs. The team addressed several complex issues of first impression during the development of this EIR. It included creating a baseline upon which to evaluate environmental impacts. The tireless efforts and professionalism displayed by each member of the team reflects great credit on the Department.

Left to Right: *(Front) Mike Hendrick, Andrea Glasgow, Delores Brown, Katy Spanos, Marcus Yee. (Middle) Monica Cross, Nancy Quan, Qinqin Liu, Barbara McDonnell, Hanspeter Walter. (Back) Ralph Torres, Cathy Crothers, Jerry Johns. (Not pictured: Curtis Spencer, Jerry Ripperda, Dan Flory)*

Left to Right: *(Front) Indy Yan, Cliff Feldheim, Juan Escobar, Ed Morris, Steven Springhorn, Dan McManus, Mark Nordberg. (Middle) Jerry Johns, Vera Sandronsky, Teresa Geimer, Maria Gomez, Andrea Glasgow, Nancy Quan, Rosi Corral, Dietlind Wiesner, Cathy Crothers, Eric Hong, Ralph Torres. (Back) Kuen Tsay, Pasha Kashkooli, Jason Harbaugh, Mark Souverville, Kevin Loutensock, Chris Bonds, Mike Bell, Tad Bedegrew, Bill Brewster, Mike Hendrick. (Not pictured: Norm Hill, Dave Anderson, Spencer Kenner, John Dunnigan, Curtis Spencer, Maureen Sergent, Edward Diamond, Carol White, Bob Aldridge, John Leahigh, Tracy Pettit, Andy Chu, Dean Reynolds, Bob Niblack, Curtis Anderson, Dave Bogener, Tito Cervantes, Kelly Staton, Debbie Spangler, Bill Ehorn, Mark Rivera, Michael Serna, Patrick Parsons, Lorraine Marsh, Trevor Joseph, Kim Rosmaier, David Scruggs, Vihn Giang, and Roy Hull)*

Drought Water Bank Team

The Drought Water Bank Team was awarded for their participation in helping alleviate the 2009 drought by facilitating voluntary water purchases from Northern California water rights holders for delivery to other parts of the State in need of additional water supply. The program included surface water and groundwater substitution transfers. The team negotiated and drafted the transfer agreements between DWR, the sellers, and the purchasers. They also developed the environmental documentation needed to implement the program and verified field data submitted by the sellers. Because of their effort, more than 74,000 acre-feet of water was transferred to drought stricken areas throughout California.

Retirements

Nirmal "Charlie" Cheema

When **Charlie Cheema** looks back on his power operations and maintenance engineering days with DWR, he has many fond memories.

"I feel I saved the Department money and lives," said Charlie. At Delta Field Division, he dedicated more than 20 years to safety. He taught training classes for field division staff to educate them about equipment, maintenance and cleanup procedures.

Charlie received his Bachelor of Science degree in Mechanical Engineering in 1960 from the University of California, Berkeley. He started his career as a design engineer with DWR's Design and Construction.

The highlight of his 45 years of State service came while with the Delta Field Division in 1981. During this time, he earned his Master's degree from the University of San Francisco through a program paid by the Delta Field Division. His thesis included an evaluation of the existing Maintenance Management System (MMS) that was installed at the State Water Project, including suggesting changes to improve the system. A recommended solution to improve MMS resulted in increased productivity worth more than $3 million, and greater reliability of the plant operation.

Charlie's efforts to improve DWR continued throughout his career. He won a PG&E Award for helping the Operations and Maintenance Center to reduce its overall energy use by 45 percent. As chairperson for the Division of Operations and Maintenance Safety Committee, he earned the Governor's Certificate of Commendation in 1991 for his endeavors to expand the scope of his classes to include teaching the use of self-contained breathing apparatus during emergency evacuations in disasters. While at DWR, Charlie was also recognized for two technical improvements made at the Delta Field Division, which included changing two speed 84 inch discharge valves to single speed at the Banks Pumping Plant and replacing carbon steel 1000 CFS impellers with stainless steel material which reduced the operations and maintenance costs.

His dedication to DWR was also highly apparent when a strike disrupted normal working hours. Charlie stayed on the clock 24 hours a day for one week to keep all equipment running and pumping. He also led the Delta Field Division's campaign for the United Way of San Joaquin County. He also became a recognized Distinguished Toastmaster (DTM) for his participation in Toastmasters International's Communication and Leadership Programs.

Charlie plans to spend most of his retirement time volunteering through community work for the Sikh Temple in Fremont as the President of Seniors.

Retirements

Erma Ash
Operations & Maintenance
Office Technician (Typing)

Surjet Bagha
Fiscal Services
Senior Accounting Officer

Annalena Bronson
Flood Management
Staff Environmental Scientist

Colleen Brown
Environmental Services
Associate Governmental Program Analyst

Stein Buer
Flood Management
Principal Engineer

Ronney De Arman
Operations & Maintenance
Office Technician (Typing)

Michael Durant
Statewide Integr. Water Mgmt.
Research Writer

David Floyd
Oroville Field Division
Heavy Equipment Mechanic

Larry Ford
Safety of Dams
Senior Engineer

Aneta Glen
Southern District
Secretary

Michael Gowen
Flood Management
Utility Craftsworker

Stephen Guthrie
Engineering
Electical Construction Supervisor I

Pamela Hart
Management Services
Associate Business Mgmt. Analyst

William Holland
Oroville Field Division
Utility Craftsworker Supervisor

Karen King
Northern District
Staff Services Analyst

Thomas Lewis
Public Affairs Office
Exhibit Designer/Coordinator

Ramona Malinowski
FESSRO***
Executive Secretary I

Rosemary Martin
Oroville Field Division
Guide II, Historical Monument

Janis Offermann
Environmental Services
Senior Environmental Planner

Roger Pippin
Flood Management
Utility Craftsworker

*** FloodSAFE Environmental Stewardship and Statewide Resources Office

INFORMATION PROVIDED BY DWR'S PERSONNEL OFFICE

Retirements

Jim Libonati

Deputy Director of Business Operations, **Jim Libonat**i, retired April 15, 2011 with more than 38 years of state service, 20 of those devoted to DWR. Jim always enjoyed the unpredictability. "I like a lot of breadth, variety and fixing problems," he says. "You don't quite know what's going to happen that day. I'm that kind of a job person."

Born in San Francisco and raised in Sacramento, Libonati graduated from Sacramento High School in 1966. He then attended Sacramento State University where he earned Bachelor's of Arts degrees in Government in 1970 and in Business Administration in 1971. A year later, he received his Masters degree in Business Administration.

After earning his master's and following a two-year stint with the State Personnel Board, his DWR career began in 1975 as an analyst in the Personnel Office. After 10 years, Jim worked on a two-month limited term position with the Department of Corrections' Personnel Office, which turned into in a 13-year career as Human Resources Chief. In 2000, he joined the Franchise Tax Board Personnel Division as the Personnel Director. In 2002, Libonati returned to DWR as the Division Chief in Management Services for four years until his promotion to Deputy Director.

"As the Deputy Director of Business Operations for the past five years, I supervised more than 400 employees who provide services to the rest of the department ranging from personnel, health and safety, labor relations, training, procurement, a whole gamut of what everyone else needs to do their job well," said Jim. "It is a support office that keeps the daily flow of our business moving forward. There are a lot of things that go on that we deal with that people kind of just assume just happen all the time. There is a lot of backdrop work that goes on that most people are not aware of."

Of all his DWR assignments, Jim's most memorable event was setting up CERS (the California Energy Resources Scheduling Division that was created to purchase electricity to keep the lights on during California's 2001-2003 energy crisis).

"That was a really big deal. It was a big thing with the Governor back then," said Jim. "Gray Davis gave the department a tremendous amount of authority without any warning to purchase power for the citizens of the State of California, he just said go do it, and we had no mechanisms, we had nothing. It was a matter of putting a lot of stuff together very, very quickly."

Jim's retirement plans include continuing his 37-year secondary profession as a reserve Sacramento County Deputy Sheriff.

"I've always been a night person. I've just had a day job my entire career," said Jim. Libonati is looking forward to continuing his on-call duty, including night patrol shifts at the airport, south Sacramento, and additionally working at Cal Expo each summer during the California State Fair.

"I've always worked and I've always enjoyed working," said Jim.

On a more leisurely note, Jim plans to continue playing softball with the Sacramento Arden Park adult slow-pitch softball league, where he has swung the bat every spring and summer for the past 25 years. He has remained loyal to one team, The Coolers, and has watched several generations of players come together.

In addition to softball, Jim plans to travel with his wife and make use of his new set of golf clubs on the course with his son. His travel itinerary is not quite pinned down just yet, but his wife has a few places in mind.

Retirements *continued*

Virginia Sajac
Statewide Integr. Water Mgmt.
Office Technician (Typing)

Tirath Sandhu
Flood Management
Supervising Engineer

David Scruggs
San Joaquin District
Senior Land & Water Use Scientist

David Showers
FESSRO***
Staff Environmental Scientist

Donald Strickland
Public Affairs Office
Information Officer I

Thang Tu
Operations & Maintenance
Staff Information Systems Analyst

Kenneth Watts
San Joaquin Field Division
HEP* Maintenance Superintendent

Bettye Whiteside
Southern District
Staff Services Analyst

Susan Woolam
Southern District
Environmental Scientist

Melvin Yarwood
Flood Management
Engineer

* Hydroelectric Plant
*** FloodSAFE Environmental Stewardship and Statewide Resources Office

INFORMATION PROVIDED BY DWR'S PERSONNEL OFFICE

Retirements

Dottie Tarleton-Rush

"The most rewarding part of my assignment was to visit the site and see the faces of the grantees and residents in the disadvantaged communities receive safe drinking water and clean water, and needed improvements to water disbursement systems," said **Dottie Tarleton-Rush** of her last DWR assignment as Associate Governmental Program Analyst when she was given the opportunity to accompany technical staff on site visits. "This brings a whole new meaning to the Department's Mission. There is no dollar amount one can pay to see the smiles and hear words of appreciation (even in another language) so pleasant to the ears. I can think of one word 'priceless'."

During Dottie's 36 years with the State, she had many memorable opportunities to greet and meet a variety of people while working for six different State agencies.

Her career began with the Department of Motor Vehicles in Sacramento as a seasonal employee in the licensing section. In 1975, she was a Clerk Typist II with Franchise Tax Board typing a variety of legal forms, providing the public with income tax forms, typing liens and letters on narcotics cases, and requesting arrest reports from the Bureau of Investigation.

Three years later, she became an Office Assistant II (Typist) with the State Controller's Office, where she logged projects from 10 divisions onto magnetic tape and assisted the Accounting Department with heavy statistical typing. In 1980, she moved to Los Angeles to work for the Inheritances and Gift Tax Department typing and examining Probate and Controller Determining Reports. After a year, she joined the Department of General Services as an Office Assistant II, serving as the Receptionist at their Los Angeles building.

In 1982, Dottie returned to Sacramento and began her DWR career as an Office Assistant II (Typing). She was an assistant to the Division of Planning's Water Reclamation and Supply Branch Secretary. In 1984, she became a Word Processing Technician with the Division's Support Branch and Desalination Unit.

Dottie became DWR's Receptionist and information person for the Director, Deputies, and Executive Division in 1990.

"It was challenging and rewarding to serve as the receptionist for the Department of Water Resources," said Dottie. "I enjoyed assisting the public, interaction with employees and communicating with people from diverse walks of life. In a world of modern-technology, I learned that when you are trying to connect with someone or acquire information, there is no replacement for hearing a live person on the other end of the telephone, including personal, professional and courteous assistance."

Dottie joined the Division of Planning and Local Assistance's Surface Storage Investigations Branch in 2001 as an Office Technician. She provided clerical and administrative support to Branch staff. After transferring to the Loans and Grants Program in 2003, Dottie prepared loan and grant contracts for applicants awarded funding. Dottie's most recent contracts that she administered included Infrastructure Rehabilitation Program and Groundwater Storage and Recharge projects, funded under Safe Drinking Water, Clean Water, Watershed Protection and Flood Protection Act (Proposition 13).

"I enjoyed working with the DPLA Staff now called the Division of Integrated Regional Water Management," said Dottie, who retired from DIRWM's Financial Assistance Branch. "DPLA has a cohesive group and no matter the tasks or circumstances the overall consensus was always a 'Teamplayer' mentality to accomplish the goal."

Dottie, who was born in Mobile, Alabama and comes from a family of 13 children, has lots of retirement plans.

"First and foremost, I plan to spend more quality time with my four adorable grandchildren and family," said Dottie, who has two sons. "I also plan to pick up one of my hobbies, which were placed on hold for such a time like this. I will enjoy the relaxed, quiet time with each stroke of the pencil and brush."

Dottie also plans to spend time traveling to Southern California to assist one of her sisters and her husband with their non-profit organization. Plans to take some college courses and participate in Church outreach are also in the horizon. Toward the end of this year, she also plans to take her first cruise, which will be a 17-day trip to Greece, Turkey and Israel.

"Last but not least, a long-term goal of mine is to open a Christian bookstore," said Dottie. "Most importantly, I plan to enjoy the pleasures of retirement, taking each day as it comes."

Retirements

Dyanna Smith

Although **Dyanna Smith** never planned to become a Construction Supervisor, it was a career that expanded her knowledge about the world of construction.

Dyanna, a Michigan native who was raised by an entire family of medical professionals, knew it was natural for her to become a doctor. After a few years of studies in the medical field, her career took a twist when she joined Aspen Electrical Engineering in Concord to help pay for the cost of school. She began as a field office organizer, then became the first woman foreman for the installation of windmills at Altamont Pass in the Livermore area.

"With all the experience that I gained at Aspen, it sparked my interest in construction and opened the doors for me to the field of construction," said Dyanna, who retired in March as a Construction Supervisor II for Lancaster Project Headquarters.

Her DWR career began as a Construction Inspector Technician with the Division of Engineering's Pearblossom Soils Lab, where she performed soils and concrete testing for Southern California State Water Project facilities. As Construction Inspector for the Surveys Section, she worked with the survey team on the Devil Canyon Second penstock and layout for construction of Mojave Siphon Powerplant. Two years later, she was promoted to the Coastal Branch project as Construction Supervisor I.

For Mojave Powerplant, Dyanna was the initial inspector for civil engineering work. At Coastal, she enforced plans and specifications as inspector for the Polonio Pass water tanks.

"It was awesome to work on the Mojave and Coastal projects because both were really different projects," said Dyanna. "As Construction inspector for Mojave Powerplant during its construction, this project was very unusual because this project required us to construct this powerplant with water moving up instead of down into the lake as most other plants. At Coastal, the State had never built these types of huge water tanks. It was an entire learning experience. We had to figure out how to build these five million gallon water tanks." She received the "Technical and Sustained Technical Achievement" award for her work at the Coastal Project.

With the completion of Coastal, Dyanna was put on an SROA list and hired by the Office of Emergency Services in Pasadena. She worked for the Hazard Mitigation Division as a Disaster Specialist on the retrofit of the Northridge earthquake damaged hospitals and schools for two years.

When the East Branch Extension (EBX) project began, she returned to DWR's Yucaipa Office. As inspector of EBX phase I from 1997 to 2001, she inspected the EBX project from Reach 1 to Reach 3. She returned to the Lancaster Project Headquarters (LPH) Office in Lancaster, to review plans and inspect sites for encroachment permits during California's building boom.

"At the highest point of this assignment, I had 60 encroachment permit projects to monitor all over southern California," said Dyanna.

Dyanna has worked on other projects, including the Horsethief Creek Bridge and Mojave Siphon Bypass construction, Pearblossom and Oso Pumping Plants reroofing, Chrisman Pumping Plant waterline addition,Vista del Lago landslide repair and the paving and regrading of Pearblossom parking area. In 2007, Dyanna was promoted to Construction Supervisor II. She worked on the Perris Dam remediation project and closing of Vista del Lago landslide project and stayed in the office to help when the Chief of LPH retired.

After retiring with 24 years of State service, Dyanna plans to enjoy more time with her husband, cake business, teaching CPR & dive physiology, conduct more diving classes and become a member of the Disaster Assistance Medical Team (DMAT) again.

"I love to travel and have gone to more than 30 remote areas worldwide, including Australia, Indonesia, New Zealand, Abaco, Palau, Philippines, and Bali," said Dyanna. "I will also be able to give more time as a diving medical technician for the hyperbaric chamber at the University of Southern California's Research Center on Catalina Island."

With a new granddaughter on the way in May, Dyanna is looking forward to having more time to spend with her.

Retirements

Varda Disho

The warm and fuzzy feeling of springtime came rolling around a tad earlier this year for **Varda Disho** when he officially retired at the beginning of March, after 20 action packed years with DWR.

Varda, who retired as a Senior Engineer, said, "All the projects I worked on were memorable, and it's difficult to pick a favorite because the exceptional caliber of the support that I always received makes me proud to have been part of the DWR team."

He began at DWR in 1991 with the Division of Engineering (DOE). During his seven years at DOE, Varda worked on several different projects, including an emergency repair on Oroville Dam's spillway and development of planning and design for the Kern Water Bank.

Varda's next stop was the Division of Operations and Maintenance, where Varda spent four years working for the Surveillance Branch, preparing performance reports on Oroville Dam, Thermalito Forebay and Afterbay.

Varda then made his way to the Division of Planning and Local Assistance, working in the Fish Passage Improvement Program and Loan and Grant Program before settling into the Division of Flood Management until his retirement.

"Time spent with DWR was a happy journey and full of good memories," said Varda.

Varda and his wife of 38 years, Carmen, are traveling to Austria this summer for a relative's wedding and are looking forward to indulging their three children and their three grandchildren with their flexible time. "Every day is a gift to be cherished," said Varda.

Barbara Cross

Being DWR's Government and Community Liaison gave **Barbara Cross** the greatest reward during her more than 38 years of State service.

"Each of my DWR assignments has had its own opportunities and challenges," said Barbara. "Developing relationships with California's Tribal governments and communities was by far the most 'unique' assignment. Not only did my contacts extend to California Tribal communities, but also to Tribal organizations and related state and federal agencies working with Tribal issues. Learning about California's Tribal peoples, their community water issues, and gaining a more enlightened understanding of California history has been way beyond the scope of my prior work at DWR."

After more than three years in as a Junior Staff Analyst, Staff Services Analyst, and Associate Governmental Program Analyst with the California Highway Patrol's Administrative Services Division, Barbara transferred to DWR as an Associate Governmental Program Analyst. While working in the Division of Planning's Resource Evaluation Office, she helped implement the new Safe Drinking Water Bond Law of 1976.

A year later, Barbara transferred to the Division of Management Services to work for the Mobile Equipment Office and then the Management Analysis Office. In 1981, she returned to Planning as a Staff Services Manager II in the Safe Drinking Water Office for the next 13 years. After the section was reorganized to the Division of Fiscal Services, Barbara was promoted to Deputy Comptroller. Barbara completed her Master's in Business Administration at Sacramento State.

In 1994, Barbara returned to Planning on a training and development assignment as Chief of the Land and Water Use Section. In 1997, she received the Management Excellence and Sustained Superior Accomplishment Awards.

In the early 2000s, Barbara began participating in Tribal and Environmental Justice issues. This work grew into her last assignment as DWR's Government and Community Liaison helping to connect DWR program managers with under-served California communities, including Tribal governments.

"I can't believe I've become a DWR 'old-timer' after only 38 years," said Barbara. "I have seen many changes in administration, and never expected that to come full circle – from Governor Jerry Brown back to Governor Jerry Brown."

After retiring in March as an environmental program manager I in Executive, Barbara looks forward to her future plans.

"I plan to keep very busy, having more time now to learn new things and conquer some mountains," said Barbara. "I have taken up long-distance bicycle riding, and will do the Lake Tahoe loop in June 2011. I have also been training for triathlons since 2005, and plan to keep training."

Retirements

Ana Pina

As Safety Coordinator at Oroville Field Division (OFD) for the past 18 years, **Ana Pina** has worked to make the workplace a safer environment.

"Rolland Williams (former OFD Chief) gave me a lifetime opportunity along with Forest Neff and Dave Starks (also former OFD Chiefs) and this opportunity was in the form of a challenge," said Ana about how she began her career as Health and Safety Officer. "I was asked to help make our workplace a safer environment and to pilot a health, safety, and hazardous waste program. And so I undertook the challenge and today I leave with so much information, so many different skills, and a peace of mind that my dedication and love for my job made our workplace a safer place."

Before joining DWR, Ana worked as a State Inspector at the Department of Agriculture for three years as a seasonal employee. Her inspections were for quality control of products going to canneries in Patterson, Modesto, and Oakdale.

A graduate of California State University, Chico with a Bachelor of Arts degree in Liberal Studies, Ana began her DWR career working for the Plant Maintenance Branch at Oroville Field Division. She then joined Operations and Maintenance's Hydroelectric Plant Mechanic Apprentice Program starting off as a Maintenance and Service Occupational Trainee and later Hydroelectric Plant Mechanic Journeyman.

After Ana's graduation from the Apprenticeship Program in 1993, she was offered an opportunity to pilot a Safety and Hazardous Waste program for DWR. She spent the rest of her DWR career working for Oroville Field Division as Health and Safety Officer.

"OFD's Confined Space Program, which includes location identification and training awareness, was recently audited by an outside entity and our program has met industry standards, which means we have been providing our employees' the tools and knowledge to enter confined spaces safely," said Ana, who worked on the Confined Space Program when it kicked off in the early 1990s.

As a member of the O&M Safety Committee, Ana and the committee found that the majority of safety training was geared toward the Civil Maintenance Section. Since then Safety and Training (ST-4) has included many mandated safety training courses, which encompass the field division's work forces.

"Being formally trained to be an educator, a computer programmer, along with the hands-on job training and the apprenticeship program, I have been highly motivated to document and improve our workplace practices," said Ana. "And I used all of these skills to focus my core attention in improving our workplace. I know as I leave today, I have left my Superintendent, Pat Whitlock, with a library of safety information, which I hope is user-friendly, and will assist him until he can hire a new safety officer."

Of all of Ana's assignments, her favorite was to propose safety policy writing and safety documentation.

"I enjoyed policy writing because you have to understand what the intent of the code is and try to incorporate the spirit of that regulation," said Ana. "And documentation because that is our paper trail and that is what will defend our Department."

As for Ana's retirement, she has lots of plans. Ana, who currently has a Real Estate license, will also be applying for substitute teaching.

"My foremost important hobby will be taking care of my husband of 35 years, Francisco, who will also be retiring from the State," said Ana. "I love to read and write and recently wrote a play, which was locally produced and I am currently writing a book. I would also like to pursue the artistic world of landscape painting and cake decorating."

DWR NEWS/People Magazine Available by Email

In an ongoing effort to reduce the cost in producing the DWR NEWS/People magazine, the magazine will be available by email for employees, retirees, water agencies, and other requestors. To receive a copy by email instead of postage mail, please send your email address to **dwrnews@water.ca.gov**

Your email address, name and organization should be sent as it appears on your mailing label. If you are a DWR retiree, please write retiree under your name. If we do not receive your email before the next issue of the magazine is circulated, you will receive a printed copy. If you are a current DWR employee, there is no need to send us your email. All employees will continue to receive an email when the magazine is posted on DWR's Web site.

Retirements

Sergio Guillen

Sergio Guillen's assignment as Executive Officer for the California Floodplain Management Task Force became a very important part of his 25 years with the State.

"Most of the recommendations from the 'California Floodplain Management Task Force Final Recommendations Report of 2002 became laws in 2007," said Sergio, who retired from the Division of Flood Management as a Supervising Engineer in March. "Most importantly, more than 27 people with controversial perspectives endorsed this report. It was a great achievement."

Sergio's engineering career began at Latham Corporation, where he designed commercial buildings. In 1986, he joined DWR as an Assistant Engineer for the Water Deliveries Section of the State Water Project (SWP) Analysis Office. He prepared models to predict long-term water deliveries of the SWP to meet contractual obligations through 2035 and assisted in determining annual water deliveries in response to SWP Contractors' requests.

A year later, he joined Design and Construction (now called Division of Engineering) in the Plants and Pipelines Section as Lead Structural Designer. He performed structural design calculations, directed contract drawings preparation, and wrote contract specifications for construction of SWP facilities, such as the second penstock for the Devil Canyon Second Powerplant and Mojave Siphon Powerplant.

As a Senior Engineer for the Division of Planning's Surface Storage Investigations Section from 1993 to 1996, Sergio assisted in developing alternatives for a south-of-the-Delta reservoir of the SWP, such as the proposed Los Banos Grandes Reservoir. He also developed designs, cost estimates, and cost evaluation of alternatives for groundwater storage projects, such as the Kern Water Bank. His role with Planning led him to becoming Program Coordinator for the CALFED Bay-Delta Program's Reservoir Development Program from 1996 to 1999.

"My main task was preparing documents that supported the decision to narrow down the list of more than 70 surface storage projects to the five projects described in the CALFED Record of Decision," said Sergio. "At CALFED, I gained a deep knowledge about the Delta and its issues. That is priceless."

Sergio's knowledge of the Delta has expanded not only with his job but as a hobby. As a volunteer pilot for the U.S. Coast Guard, he has spent several weekends patrolling the Delta.

He joined The Reclamation Board (now called the Central Valley Flood Protection Board) from 1999 to 2001. As Program Manager, Sergio worked on "The Sacramento-San Joaquin River Basins Comprehensive Study," which is the predecessor of the "Central Valley Flood Protection Plan." From 2001 to 2003, after his post as Executive Assistant to Deputy Director Jonas Minton and Executive Officer for the 2002 California Floodplain Management Task Force, Sergio became Assistant Deputy Director from 2003 to 2009 of the California Bay-Delta Authority, the agency in charge of implementing the CALFED Bay-Delta Program. As Delta Vision and Delta Levees Program Manager, he also provided technical support to prepare the Delta Plan, that reflects the recommendations made by the Blue Ribbon Task Force and the Delta Vision Committee.

From 2009 until his retirement, Sergio was responsible for tracking the $3.2 billion bond-funded activities and for the preparation of quarterly and yearly progress reports for the California Legislature as required by bond-enacted laws.

A native of Guatemala, Sergio earned his Master of Science in Water Resources, with emphasis on Sanitary Engineering, and Bachelor of Science degrees from University of the Valley of Guatemala. Sergio also has a Master of Science in Civil Engineering from California State University, Sacramento.

With his retirement, Sergio begins his new career in the private industry as an engineer for Atkins Corporation. His first assignment involves working on a pipeline in San Francisco. When Sergio is not at work, he enjoys flying his 1947 plane and also traveling annually to Guatemala with his wife and two daughters to visit his relatives.

Retirements

Surjit Bajaj

"It has been a great run," said Supervising Hydroelectric Power Utility Engineer **Surjit Bajaj** who joined DWR on February 6, 1989. "I have always been proud to work in the Southern Field Division, where we all take pride in our work to operate and maintain the State Water Project."

After Surjit's graduation in Electrical Engineering from Agra University in Agra, India in 1966, he began his career as a graduate apprentice at Bharat Heavy Electricals, LTD (BHEL), India. By 1975, Surjit found himself near Prague, Czechoslovakia working for BHEL for specialized training in Static Excitation Systems design and automatic voltage regulators (AVR) for reversible hydro machines at Skoda Works. One of his most memorable assignments was to investigate and modify the AVR to control the voltage rise at full load rejection in Kulhal Machines.

Surjit stayed with BHEL for 16 years and was a Deputy Manager before he immigrated to the U.S. in 1982. During his first U.S. job with Bechtel Power Corporation, Surjit had the opportunity to work on San Onofre Nuclear Powerplant, the Korea Nuclear Power Unit, and the Rancho Seco Nuclear Powerplant. The closing of Rancho Seco prompted Surjit to join DWR's Southern Field Division as an Associate Engineer in Castaic and later in Pearblossom.

Surjit's 22 years with DWR included a flurry of important assignments, which involved budgeting, planning, directing, organizing, and controlling all engineering support activities of the Southern Field Division.

"It was an interesting experience as an Associate Engineer at that time. I was exposed to the complete start up of new units with plenty of new things to learn," said Surjit of one of his most interesting projects he recalls as being the startup testing of Pearblossom Units 7, 8, and 9.

Surjit and his wife of 39 years are looking forward to many travel adventures. The couple recently returned from the southern part of India and plan to travel to Thailand next. They also plan on eventually settling in Orange County and are looking forward to spending time with their children and grandchildren in Dallas, Chicago, and San Diego.

New Hires

Andria Avila
Statewide Integr. Water Mgmt.
Office Technician (Typing)

Kevin Backes
Southern Field Division
HEP* Electrician Apprentice

Andrew Bambauer
Flood Management
Engineer

Jacob Beauchamp
Oroville Field Division
HEP* Mechanic Apprentice

Todd Bernardy
Flood Management
Senior Engineer

Jared Birdsall
Statewide Integr. Water Mgmt.
Associate Land & Water Use Scientist

Christina Boggs
Statewide Integr. Water Mgmt.
Engineering Geologist

David Bovard
Oroville Field Division
HEP* Operator Apprentice

Jody Brown
Environmental Services
Senior Environmental Planner

Danny Campos
Southern Field Division
Materials & Stores Specialist

Lincoln Carey
Flood Management
Utility Craftsworker Apprentice

Cody Carrete
San Joaquin Field Division
HEP* Operator Apprentice

Lily Cervantes
Management Services
Labor Relations Specialist

Patricia Clark
Flood Management
Associate Governmental Program Analyst

Richard Coelho
Delta Field Division
Utility Craftsworker

Christopher Collins
San Luis Field Division
Utility Craftsworker

Ryan Cooper
Engineering
Engineer

Jessikah Cummings
Fiscal Services
Accountant Trainee

Moranda Dahl
Operations & Maintenance
Engineer

Raymond Dascenzo III
Southern Field Division
HEP* Operator Apprentice

Criselda Datoc
Southern District
Staff Services Analyst

Benjamin Deal
Engineering
Mechanical Engineer

Jesse Dillon
Engineering
Engineer

Gregory Dudley
Flood Management
Utility Craftsworker Apprentice

James Edwards
Operations & Maintenance
Engineer

Stuart Farley
San Joaquin District
Senior Engineer

Elizabeth Fernandez
Engineering
Associate Governmental Program Analyst

Matthew Gerspacher
Oroville Field Division
HEP* Electrician Apprentice

* Hydroelectric Plant

INFORMATION PROVIDED BY DWR'S PERSONNEL OFFICE

New Hires *continued*

Rebecca Gilbert
Environmental Services
Environmental Planner (Arch.)

Eric Gorman
Southern District
Engineering Geologist

Jason Gray
Flood Management
Engineer

Brittiny Gray
Southern Field Division
Utility Craftsworker Apprentice

William Hanley
Flood Management
Staff Services Analyst

Richard Harmonson
Technology Services
Systems Software Specialist III

Garrett Hart
Engineering
Construction Supervisor I

Brandon Hatcher
Delta Field Division
HEP* Operator Apprentice

Jean Haynes
Fiscal Services
Senior Accounting Officer (Supv.)

Balpreet Heer
Engineering
Electrical Engineer

Rebecca Hernandez
Southern Field Division
HEP* Operator Apprentice

Steven Hoang
Fiscal Services
Accountant Trainee

Majid Hosseini
Engineering
Electrical Engineer

Eileen Hoyt
Management Services
Senior Information Systems
Analyst (Supv.)

Wilbur Huang
Flood Management
Senior Engineer

Christina Jimenez
Public Affairs Office
Information Officer I

Andrew Johnson
Operations & Maintenance
Senior Control Engineer (Supv.)

William Johnston
Engineering
Electrical Construction Supervisor I

Kenny Jones
Southern Field Division
HEP* Mechanic I

Pavel Kazi
Flood Management
Engineer

Nita Khushal
Management Services
Staff Services Analyst

Melissa Kwong
Fiscal Services
Associate Accounting Analyst

Annette Lockhart
Engineering
Transportation Surveyor (Caltrans)

James Long
Oroville Field Division
HEP* Mechanic Apprentice

James Mccabe
Delta Field Division
Utility Craftsworker Apprentice

C. Michael Mckenzie
San Joaquin District
Engineering Geologist

Jeffrey Mickey
San Joaquin Field Division
HEP* Operator Apprentice

Megan Minnich
Management Services
Staff Services Analyst

Anthony Navasero
Flood Management
Engineer

Thu Nguyen
Fiscal Services
Accountant Trainee

Felix Nuno
San Joaquin Field Division
HEP* Electrician Apprentice

Samantha Nycz
Southern Field Division
HEP* Operator Apprentice

David O'Connor
Southern Field Division
HEP* Electrician I

Scott Olling
Public Affairs Office
Graphic Designer III

Dan Owen
Central District
Jr. Engineering Technician

Sridevi Pathipati
Technology Services
Senior Program Analyst

Dominic Pernetti
San Luis Field Division
Utility Craftsworker

Kathleen Perry
Fiscal Services
Accounting Administrator III

Christie Redding
Flood Management
Office Technician (Typing)

Andre Redmond
Delta Field Division
Warehouse Worker

Mathew Rios
Fiscal Services
Accountant Trainee

Andrew Rios
San Luis Field Division
HEP* Electrician Apprentice

Blake Robertson
San Joaquin Field Division
HEP* Mechanic Apprentice

Lance Salisbury
Flood Management
Environmental Scientist

Jacob Scott
San Joaquin Field Division
Mechanical Engineer

Songping Shen
Technology Services
Systems Software Specialist II

Brandon Silva
San Luis Field Division
Utility Craftsworker

Mary Simmerer
Executive
Program Manager I, CA Bay-Delta
Auth.

Beverly Snipes
Operations & Maintenance
Office Technician (Typing)

Joshua Stepp
Southern Field Division
HEP* Mechanic Apprentice

Diana Stoker
Delta Field Division
Office Technician (Typing)

Martin Summers
Oroville Field Division
HEP* Operator Apprentice

Cinia Tagle
Delta Field Division
Office Assistant (Typing)

Anna Tran
Management Services
Personnel Specialist

Mengping Tsou
Fiscal Services
Accountant Trainee

Elizabeth Vail
Statewide Integr. Water Mgmt
Environmental Scientist

Anna Vietti
Engineering
Office Technician (Typing)

Kristina Vilhauer-Reese
Environmental Services
Environmental Scientist

Tyrel Voss
Delta Field Division
HEP* Operator Apprentice

Michael Weaver
Technology Services
Systems Software Specialist II

Michael Weil
Southern District
Engineer

Thomas Westerhoff
Delta Field Division
HEP* Electrician Apprentice

Kellie Westley
Engineering
Staff Services Manager I

Mike Wilson
San Luis Field Division
Utility Craftsworker Apprentice

Diane R. Young
Integ. Reg. Water Mgmt.
Office Technician (Typing)

* Hydroelectric Plant

INFORMATION PROVIDED BY DWR'S PERSONNEL OFFICE

Promotions

Iris Abernathy
Fiscal Services
Senior Accounting Officer (Supv.)

Kathleen Adams
San Luis Field Division
Admin. Officer II, Resources Agency

Eddie Alcombright
Delta Field Division
Utility Craftsworker Supv.

Buffy Alvarez
Fiscal Services
Accounting Administrator I (Supv.)

Hassan Amin
Engineering
Engineer

Javed Ashraf
Operations & Maintenance
Associate Control Engineer

Rachel August
Environmental Services
Environmental Scientist

Arlene Bailey
Management Services
Associate Governmental Program Analyst

Roger Baker Jr
San Joaquin Field Division
Senior HEP* Operator

Gia Barrera
San Joaquin Field Division
Admin. Officer II, Resources Agency

Joseph Bartlett
Flood Management
Senior Engineer

Raylene Barton
San Luis Field Division
Business Service Officer I

George Benny
Engineering
Water Resources Technician II

Brian Borlace
Operations & Maintenance
Chief of Mobile Equip Operations

Daniel Boulant
Oroville Field Division
HEP* Operator

Russell Bowlus
Safety of Dams
Senior Engineer

Jessica Boyt
Northern District
Environmental Scientist

Dale Brown
Engineering
Senior Engineer

Thuc Bui
Fiscal Services
Associate Budget Analyst

Jason Bunce
San Joaquin Field Division
HEP* Mechanic II

Eric Burk
Oroville Field Division
HEP* Operator

Deane Burk
SWP Power & Risk Office
Senior HEP** Utility Engineer (Supv.)

Letitia M. Burns
Southern Field Division
Office Technician (Typing)

Charles Butler
Engineering
Construction Supervisor II

Jesse Cason Jr.
Engineering
Senior Electrical Engineer HS

Mark Chadwick
Technology Services
Data Processing Manager II

Reynaldo Chavez
Delta Field Division
Supervising HEP** Utility Engineer

Tami Clark
Flood Management
Utility Craftsworker Apprentice

Margaret Cook
Executive
Legal Secretary

Doak Cotter
San Luis Field Division
Water Resources Technician II

Miguel De Anda
Engineering
Supervising Engineer

Dillon De Los Reyes
Delta Field Division
HEP* Operator

Tommy Deaton
Operations & Maintenance
Senior Water & Power Dispatcher

Rene Delacerda
Operations & Maintenance
Water & Power Dispatcher

Laura Delphina
Southern Field Division
Admin. Officer II, Resources Agency

Hunter Doyle
Oroville Field Division
HEP* Operator

Karen Dulik
San Joaquin District
Environmental Program Mgr. I (Supv)

Jonathan Duncan
Statewide Integr. Water Mgmt
Engineer

Jaike Dyer
San Luis Field Division
Water Resources Technician II

Joseph Eades
Oroville Field Division
Water Resources Technician II

William Ehorn
Northern District
Senior Engineering Geologist

Mitra Emami
Central Valley Flood Protection Board
Senior Engineer

Gordon Enas
Engineering
Principal Engineer

Rodney Essex
Technology Services
Senior Information Systems Analyst (Supv.)

James Eto
Flood Management
Engineer

Dana Fernandez
Technology Services
Staff Information Systems Analyst

Kimberly Flaherty
Operations & Maintenance
Staff Environmental Scientist

Kent Frame
Statewide Integr. Water Mgmt
Program. Manager II,
CA Bay-Delta Auth.

Jasbir Gill
Engineering
Associate Land Agent

Maria Gomez
Management Services
Staff Services Manager I

Katherine Gould
Oroville Field Division
Admin. Officer II, Resources Agency

Kevin Gray
Engineering
Senior Engineer

Kathy Grinnell
Oroville Field Division
Water Resources Technician II

Jim Ham
Technology Services
Staff Program Analyst

William Harrell
Executive
Program Manager II, CA Bay-Delta Auth.

Jeffrey Harrison
Southern Field Division
Utility Craftsworker

Vahnita Hooker
San Joaquin Field Division
HEP* Mechanic I

Philip Huckobey
Northern District
Water Resources Technician II

Roy Hull
Northern District
Engineering Geologist

Stephanie Jamison
San Joaquin Field Division
HEP* Operator

Marsha Jimenez
Southern Field Division
Water Resources Technician II

Bryan Johnson
San Luis Field Division
HEP* Operator

Kenneth Karcher
Central District
Senior Engineer

Michael Kelly-Dewitt
Management Services
Staff Services Analyst

Teresa Kerner
Flood Management
Associate Government Program Analyst

Joseph Killen
Engineering
Engineer

* Hydroelectric Plant ** Hydroelectric Power

INFORMATION PROVIDED BY DWR'S PERSONNEL OFFICE

Promotions *continued*

Susanna Kong
Operations & Maintenance
Systems Software Specialist III (Supv.)

Lanson Kovac
Operations & Maintenance
Engineer

Jason La Deaux
Central District
Water Resources Technician II

John Lee
Delta Field Division
HEP* Operator

Frank Lideros
Engineering
Senior Engineer

Thomas Lutterman
Integ. Reg. Water Mgmt.
Senior Engineering Geologist

Jose Martinez
San Joaquin Field Division
HEP* Electrician I

Michael Martinez
Management Services
Senior Personnel Specialist

James McDermott
Fiscal Services
Associate Governmental Program Analyst

Bruce Meiers
Delta Field Division
HEP* Mechanic II

Francine Mejia
Environmental Services
Staff Environmental Scientist

Daniel Mendibles
San Luis Field Division
Admin. Officer II, Resources Agency

Arthur Mendizabal
Operations & Maintenance
Electrical Engineer

Wolfgang Meyersohn
Safety of Dams
Supervising Engineer

Michael Miller
Public Affairs Office
Graphic Services Supervisor

Glenn Moeller
Engineering
Senior Engineer

Daniel Monterrubio
Operations & Maintenance
Associate HEP** Utility Engineer

Marcos Moreno Jr
Southern Field Division
Jr. Engineering Technician

Marcos Moreno Jr
Southern Field Division
Water Resources Technician I

Jane Mountjoy
Flood Management
Associate Governmental Program Analyst

James Newcomb
Environmental Services
Senior Environmental Scientist

Jason Newton
Oroville Field Division
HEP* Electrician Apprentice

Tru Nguyen
Engineering
Supervising Engineer

Emiliano Nunez
Technology Services
Associate Information Systems Analyst

Juan Ocegueda Jr.
San Joaquin Field Division
HEP* Mechanic I

Thomas O'Neil
Engineering
Associate Land Agent

Eric Oppenheimer
Statewide Integr. Water Mgmt.
Program. Manager II,
CA Bay-Delta Auth.

John Paasch
Flood Management
Senior Engineer

Ganesh Pandey
Engineering
Supervising Engineer

Robert Parmley III
Southern Field Division
HEP* Mechanic II

Anitra Pawley
FESSRO***
Program. Manager I, CA Bay-Delta Auth.

Rene Perez
Southern Field Division
HEP* Operator

David Pesavento
Flood Management
Senior Engineer

Steven Peterson
Engineering
Senior Information Systems Analyst (Supv.)

Glenda Porter
Delta Field Division
Admin. Officer II, Resources Agency

Steve Porter
Flood Management
Senior Engineer

Bhagauti Prasad
Fiscal Services
Accounting Officer

Patricia Provost
Management Services
Senior Personnel Spec.

Mary Ramirez
Fiscal Services
Accounting Administrator I (Supv)

Laura Rea
San Joaquin Field Division
Control System Technician II

Scott Rebelo
Engineering
Water Resources Technician II

Andres Reyna
Delta Field Division
Admin. Officer I, Resources Agency

Victoria Rodriguez
Engineering
Staff Services Analyst

Paul Romero
San Joaquin District
Supervising Engineer

Tyler Salman
Central District
Environmental Scientist

Justin Sannar
Flood Management
Utility Craftsworker

David Sarkisian
Operations & Maintenance
Senior Engineer

David Schaap
Central District
Water Resources Engineering Associate

Jane Schafer-Kramer
Bay-Delta Office
Research Analyst II (Geo-Info-Sys)

Cathy Shannon
Oroville Field Division
Admin. Officer II, Resources Agency

Ryan Sherman
Southern Field Division
Utility Craftsworker

Jason Sidley
Statewide Integr. Water Mgmt
Senior Engineer

Sukhbir Singh
Engineering
Senior Electrical Engineer HS

Patricia Small
FESSRO***
Executive Secretary I

Gertrude Smith
Engineering
Associate Land Agent

William Smith
San Joaquin Field Division
HEP* Operator

Kevin Smith
Southern Field Division
HEP* Operator

Robyn Starr
Engineering
Research Analyst II (GIS)

Della Stephenson
Oroville Field Division
Water Resources Engineering Associate

Andrew Steward
Oroville Field Division
Electrical Engineer

Brody Sunderland
Central District
Environmental Scientist

Trisha Swanson
Executive
Associate Governmental Program Analyst

Bekele Temesgen
Statewide Integr. Water Mgmt.
Senior Land & Water Use Scientist

Anna Tequida
Engineering
Associate Land Agent

Selwyn Thomas Jr.
Operations & Maintenance
Water & Power Dispatcher

Omid Torabian
Fiscal Services
Accountant Trainee

Olaf Van Ardenne
Technology Services
Data Processing Manager II

* Hydroelectric Plant
** Hydroelectric Power
*** FloodSAFE Environmental Stewardship and Statewide Resources Office

INFORMATION PROVIDED BY DWR'S PERSONNEL OFFICE

Promotions *continued*

Matthew Van Vacter
Southern Field Division
Water Resources Technician I

Daniel Vasquez
Engineering
Associate Land Agent

John Wilusz
FESSRO***
Senior Engineer

Jeff Winchester
Southern Field Division
Water Resources Technician I

Wayne Wong
Operations & Maintenance
Associate Control Engineer

Shuklan Wong
Fiscal Services
Senior Accounting Officer

Christopher Wu
Engineering
Associate Land Agent

*** FloodSAFE Environmental Stewardship and Statewide Resources Office

Obituaries

Carl Leo Stetson

Carl Leo Stetson, retired, District Chief, San Joaquin District, passed away in his sleep, at home, at the age of 92 on February 8, 2011.

Born in Stonyford, Colusa County on December 16, 1918, he served in the U.S. Army during WWII in New Guinea, Mindanao and Japan.

He grew up in Sacramento and graduated from the University of California at Berkeley in 1940 with a Bachelor of Science in Civil Engineering. He began his career with the U.S. Geological Survey and then joined the State of California in 1946 in Sacramento.

In 1957, he was hired by DWR, where he spent the rest of his career. He retired in 1981. In 1961, he was appointed the first Chief of the San Joaquin District and moved from Sacramento to Fresno. He established the first DWR office in the San Joaquin Valley and was extremely proud of the 80-100 employees that worked on the planning and development of water resources and administering contracts for water sales from the State Water Project.

Two years prior to his retirement in 1981, he was Chief of the San Joaquin Valley Agricultural Drainage Office.

After retiring in 1981, he and his wife, Marguerite, traveled throughout the U.S., Canada, Mexico and Panama. When Marguerite passed away in 1986, after 45 years of marriage, he returned to college to broaden his knowledge and traveled extensively throughout Europe, Greece, Israel, and Egypt. He was a Board Member of the Friends of Madden Library, C.S.U. Fresno for many years and a life member of the American Society of Civil Engineers (Cal. Reg. Civil Engineer No 6817). He was active and alert until his death, attending plays and symphonies, watching football and completing crossword and Mensa Sudoku puzzles.

Carl's brother, Thomas M. Stetson, passed away May 14, 2011; he established Stetson Engineering, specialized in water issues throughout the Western states. Carl is survived by his sister, Barbara Campbell of Davis, and three children, Dan, Tom, and Luree. Luree retired from the State in 2010 after working for the Natural Resources Agency and Strategic Growth Council. Carl also leaves six grandchildren and three great-grandchildren.

Remembrances may be made to Friends of the Madden Library, 5200 N. Barton Ave. N/S ML 34, Fresno, CA 93740 and any recollections remembrances may be placed on his profile by going to **www.whitehurstsullivan.com**

Tolbert Williams

Tolbert Williams, retired Utility Craftsworker with San Joaquin Field Division, passed away on March 14 of cancer.

"Tolbert and I worked side by side," said Joe Guerra, Utility Crafts Superintendent of San Joaquin Field Division. As I moved up in the ranks, he worked for me in various crews and always followed directions to the 't.' He was one of my best employees."

During his 18 years with DWR, Tolbert helped maintain the California Aqueduct from Taft Highway to the bottom of the Grapevine. In addition to being part of SJFD coating and blasting crew, his assignments also included oil containment for pumping plants and repaving of maintenance roads. After his retirement in 2009, Tolbert moved to Holdenville, Oklahoma.

"He was probably one of the nicest persons I have ever met," said Ron K.Wolfe, Assistant Utility Crafts Superintendent of San Joaquin Field Division. "He never had a bad word to say about anyone. He was always positive and very happy to see you." Tolbert will be deeply missed.

He is survived by his wife, Wilma, step-daughter, and his four children.

INFORMATION PROVIDED BY DWR'S PERSONNEL OFFICE

Obituaries *continued*

Vern Persson

Vern Persson, retired Chief of the Division of Safety of Dams, passed away on April 20 in Carmichael at the age of 76.

Vern worked for DWR more than 41 years, playing a major role in the design and construction of the State Water Project and serving as Chief of DSOD for 11 years until his retirement in 1999. Vern was a recognized national and worldwide leader in dam safety.

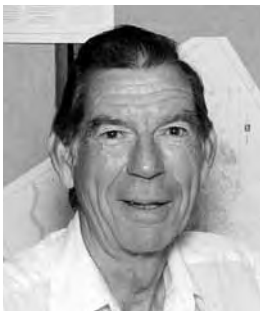
A native of Nebraska, Vern graduated from the University of Nebraska with a degree in civil engineering. He began his State career with the Department of Public Works, Division of Highways Bridge Department. Before joining Safety of Dams in 1977, he worked as supervising engineer for the Civil Design Branch, where he worked on buildings, bridges, intakes, pipelines, and other projects.

He led DSOD in the creation of the 'Shakey Board' to provide the Division the opportunity for renowned seismologists to review current dam safety practices and provide advice in shaping future practices. He also served on the Board of Directors for the Association of State Dam Safety Officials.

"Vern was a great mentor to many of us over the years," said David Gutierrez, Chief of DSOD. "His work on the State Water Project and later as the leader of the Division of Safety of Dams was of great benefit to the people of California. He will truly be missed."

Vern is survived by his wife of 54 years, Gretchen, and daughters Carrie and Jill.

Robert Roy Hiatt



Robert Hiatt, retired Water Resources Engineering Associate, passed away at the age of 81on April 20.

A Patterson native, Bob later became a long time Sacramento resident. He joined DWR as an aid II at the Patterson Project Office doing surveys on the first 70 miles of the California Aqueduct. He continued surveying for Design and Construction's Construction Branch at Castaic Lake, Quail Canal, Pyramid Dam, and other parts of the West Branch.

In 1973, he transferred to Sacramento as a licensed land surveyor with the Division of Land and Right of Way. After 10 years, he returned to the Construction Branch to work on Bottle Rock and South Geysers Geothermal powerplants. In 1986, he became survey party chief for North Bay Aqueduct. Bob retired with 26 years at DWR in August of 1989. He also worked as a retired annuitant from 1990 to 2004.

He is survived by his partner Jeanette, five children, 11 grandchildren, and five great-grandchildren.

Stanley Jacobs

Stanley Jacobs, a former DWR Mechanical Engineer, passed away at the age of 58 on April 14, 2011.

He worked for DWR as an engineering student assistant in the late 1970s. He graduated from California State University, Sacramento with a Bachelor of Science degree in Mechanical Engineering and worked for DWR for more than 20 years. As an associate equipment engineer, he worked on DWR's purchase of 20 alternate fuel vehicles in the late 1990s. He was a member of DWR's Tennis Club in 1983. He received a meritorious service award and SAP Phase I Implementation Team Unit Citation in 2000. He left DWR February of 2000 to join the Department of Transportation.

Born in Toledo, Ohio, he was a long time resident of Sacramento, California.

Stanley is survived by his wife, Linda Jacobs, his children Kateshia Pendergrass and Jhabari Jacobs, granddaughter A'sharia Pendergrass.

Obituaries *continued*

Dean Thompson

Dean Thompson, retired Chief Public Information Officer, passed away on February 11 after a long-term chronic illness.

After his graduation from San Jose State with a Journalism degree in 1946, Dean became editor and later managing editor of the Hayward Daily Review and later the Nevada County Nugget.

In 1964, Dean began as an Information Officer for DWR during the construction of the State Water Project. After two years, he was promoted to Chief Public Information Officer. He assisted in the planning for the Oroville Dam and Delta Pumping Plant dedication.

During Dean's 20 years with the State, he began and ended at DWR. However, he also spent 11 years in special exempt positions. In 1966, he became Assistant Press Secretary for Governor Pat Brown. He served as Executive Director of the California Water Commission in 1968. In 1972, he was appointed Public Affairs Assistant to Secretary for Resources Norman Livermore.

Dean retired in 1984, then returned to the State to be part of the Drought Task Force in the late 1980s.

Preceded in death by his first wife Velma and daughter Deborah, Dean is survived by his wife of 15 years, Edith, and extended family.

Stanley White

Stanley White, retired Civil Maintenance Supervisor, passed away at the age of 74 on April 18 in Bakersfield.

Stanley, who was born in Sacramento, began his DWR career with the Sacramento Maintenance Yard clearing brush and maintaining levees as a levee patrolman. He assisted in clearing fences and buildings for the construction of Frenchman Dam.

In 1963, he transferred to Delta Field Division as flood controlman. After five years, he transferred to San Joaquin Field Division's Lost Hills Subcenter as a Maintenance Worker III and later became Civil Maintenance Supervisor. In 1967, he joined the SJFD's Operations and Maintenance Center until his retirement in 1996. He also worked on the Med Fly project in the Bay Area.

He is survived by his wife of 46 years, Lillian, six children, 16 grandchildren, and five great-grandchildren.

John Morris

John Morris, a retired Hydroelectric Plant Mechanic II at the Dos Amigos Pumping Plant, passed away at the age of 61 in Turlock on January 12, 2011 after a brief battle with cancer.

A native of Long Beach, John worked for Standard Oil in El Segundo after his high school graduation. After moving to Los Banos, he worked for Dairymen's before joining DWR's San Luis Field Division. He worked 26 years for DWR, then he retired in 2009.

He is survived by his wife, JoAnna, a son, and a grandson.

Sol Berkowitz

Sol Berkowitz, retired Hydroelectric Plant Mechanic I with San Joaquin Field Division, passed away at the age of 71 at his home on March 26, 2011.

During his seven years with DWR, he worked at Edmonston Pumping Plant and assisted with projects at Gianelli Pumping-Generating Plant. He retired in 2005.

He is survived by his wife of 53 years, Crystal.

DWR NEWS/People
Public Affairs Office
1416 Ninth Street, Room 252-21
Sacramento, CA 95814

DWR Mission | *Statement*

To manage the water resources of California in cooperation with other agencies, to benefit the State's people, and to protect, restore, and enhance the natural and human environments.